

ANNUAL REPORT

COMMISSIONER OF PATENTS

FOR

THE YEAR 1870.

VOLUME III.

WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1874.

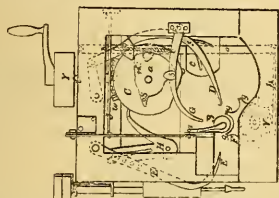


ILLUSTRATIONS OF PATENTS

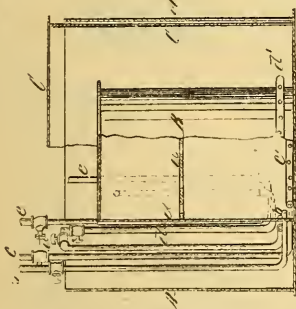
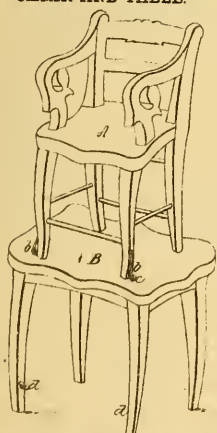
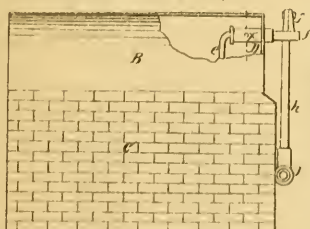
ISSUED FROM

THE UNITED STATES PATENT OFFICE

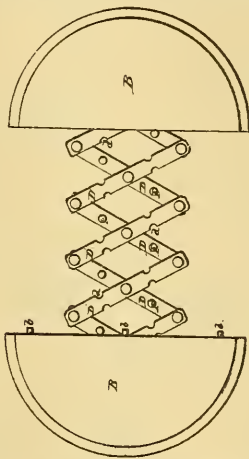
JANUARY 4, 1870.

98,460. C. A. ALSING.
ASPHALT PAVEMENT.98,461. B. ARNOLD.
MACHINE FOR MAKING NETS.

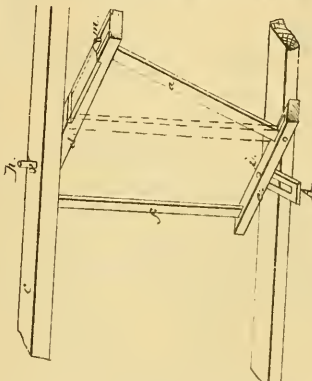
98,462. S. R. BALL. CARBURETER.

98,463. P. G. BECKLEY. NURSERY
CHAIR AND TABLE.98,464. W. G. BELL. STEAM
BOILER INDICATOR.

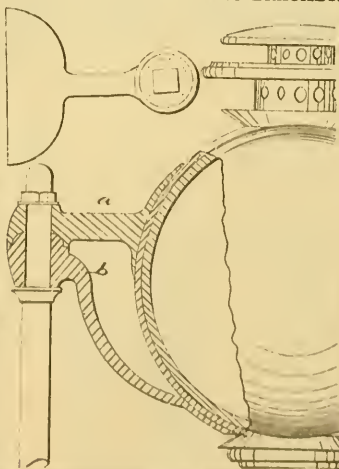
98,465. W. J. BODA. EXTENSION TABLE.

98,466. C. BOND. COMPOSITION FOR
DYEING LEATHER, &c.

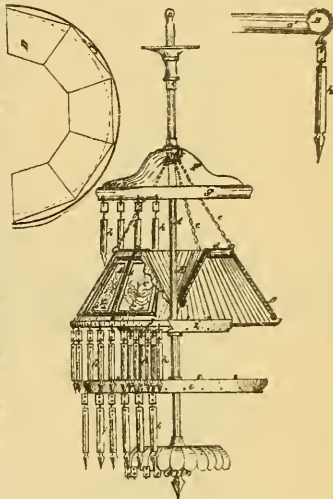
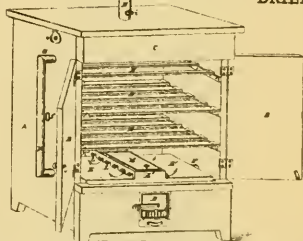
98,467. N. W. BOODY. STANCHION.



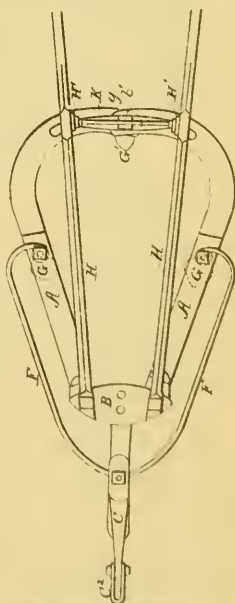
98,468. T. BOUDREN. LAMP BRACKET.

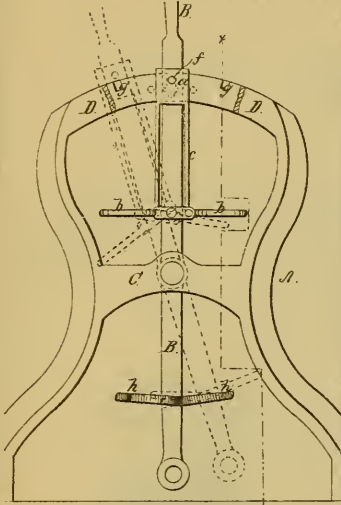


98,469. T. BUCKLEY. CHANDELIER.

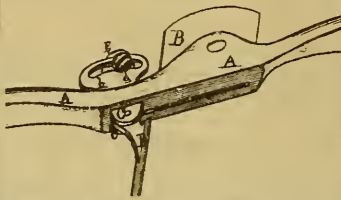
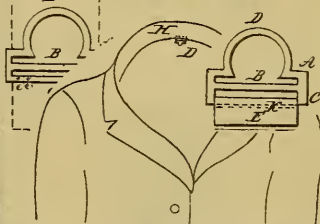
98,470. A. W. COX AND W. GANSE.
DRIER.

98,471. B. S. COX. CULTIVATOR.

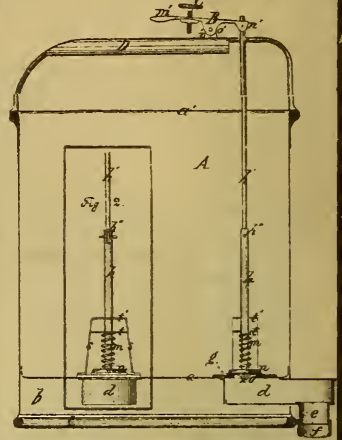
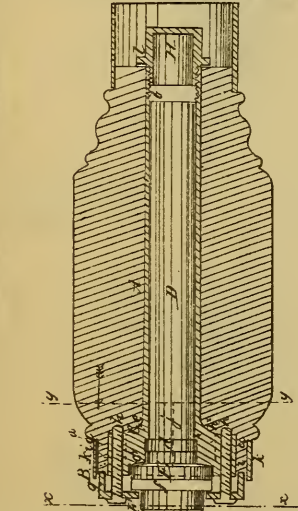


98,472. N. N. DALE.
RAILROAD SWITCH.

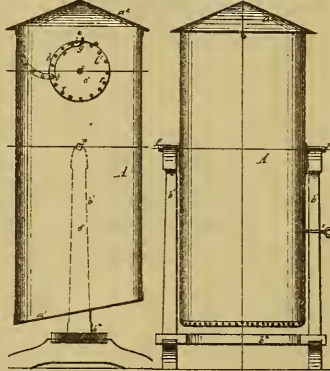
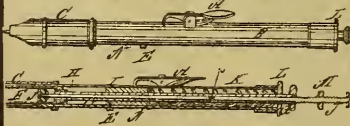
98,475. J. DAVIES. SPOKE SHAVE.

98,476. DESKY AND JENNINGS.
COAT HANGER.

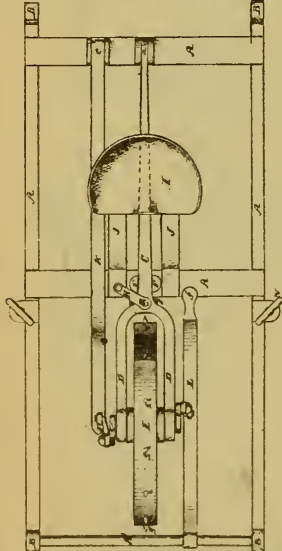
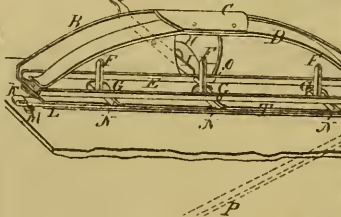
98,481. W. L. FISH SPRINKLING POT.

98,473. D. DALZELL. ATTACHING
HUBS TO AXLES.

98,477. D. W. DOAN. ASH SIFTER.

98,478. C. H. ECCLESTON.
VACCINATING INSTRUMENT.

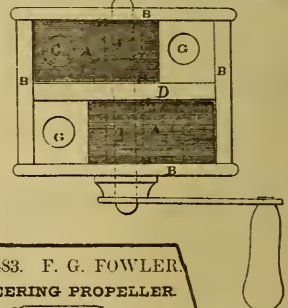
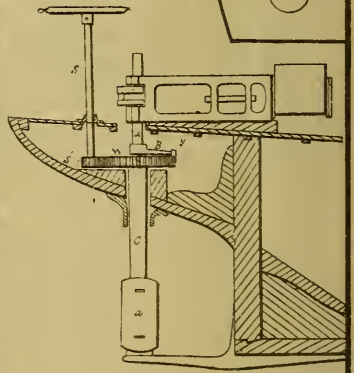
98,474. L. DAROZIR. SLEIGH.

98,479. G. W. EMERSON. TEMPORARY
PAPER BINDER.

98,480. A. FARRAR. IRON PAVEMENT.

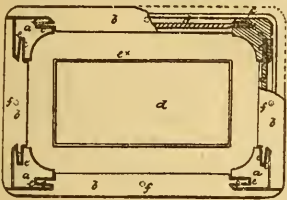


98,482. J. T. FOSTER. ROTARY PUMP.

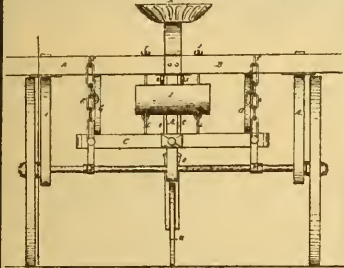
98,483. F. G. FOWLER.
STEERING PROPELLER.

98,484. S. W. FOWLER. LAMP CHIMNEY.

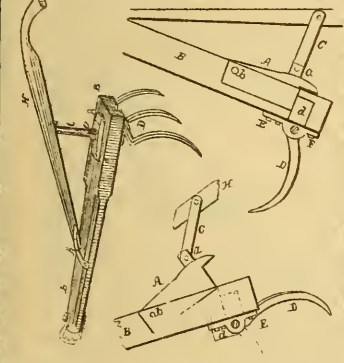
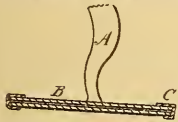


98,485. E. F. FRENCH.
SEWING MACHINE COVER.

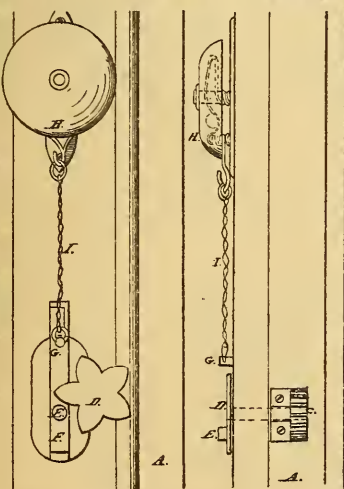
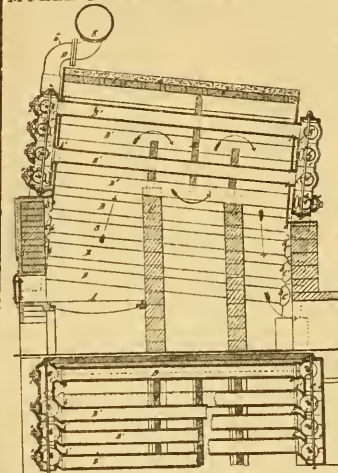
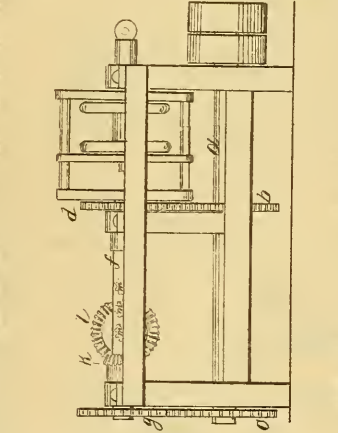
98,486. C. R. FRINK. HAY SPREADER.



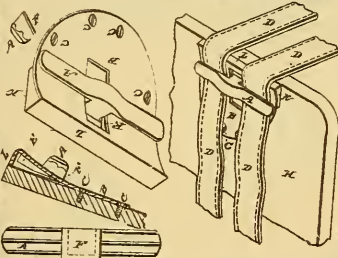
98,487. W. GEHR. MANURE FORK.

98,488. GOODWIN, GAMAGE, AND
GOODWIN.
CARRIAGE STEP GUARD.

98,489. H. GREEN. BURGLAR ALARM.

98,490. GRIFFITH, WUNDUM, AND
MULLER. STEAM BOILER.98,491. B. S. AND J. B. HALE.
CORD MACHINE.

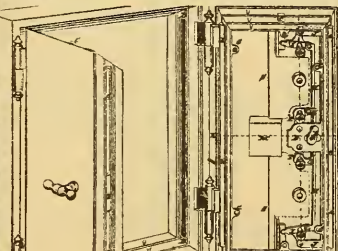
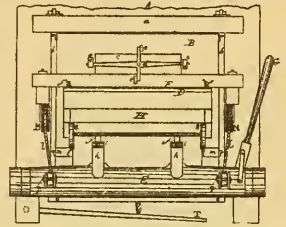
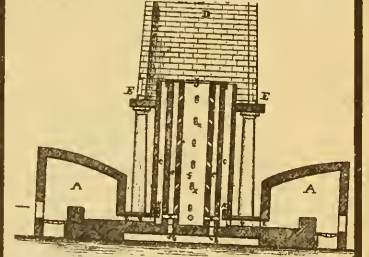
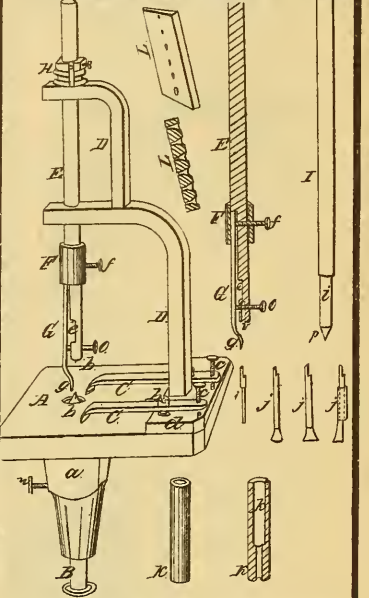
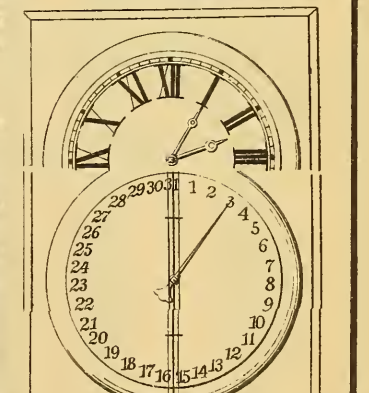
98,492. J. HARDING. REIN HOLDER.

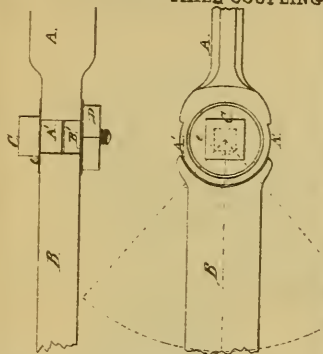
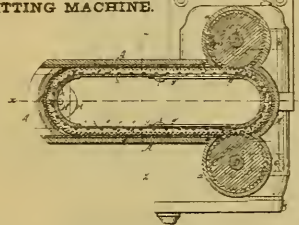


98,493. M. HEILMAN. FLY NET.



98,494. J. C. HINTZ. BOLT WORK.

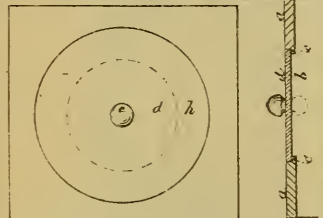
98,495. HOBBS AND ELDER.
BRICK MACHINE.98,496. A. W. HONSINGER.
FURNACE FOR DEOXIDIZING IRON ORE98,497. C. HOPKINS.
DRILLING, RIVETING, AND WATCH
JEWELING APPARATUS.98,498. H. B. HORTON.
CLOCK CALENDAR.

98,499. B. HOTCHKISS.
THILL COUPLING98,500. H. A. HOUSE.
KNITTING MACHINE.

98,501. J. HOYT. PIPE COUPLING.



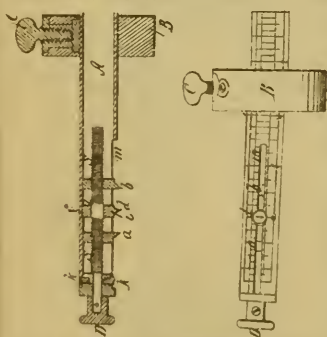
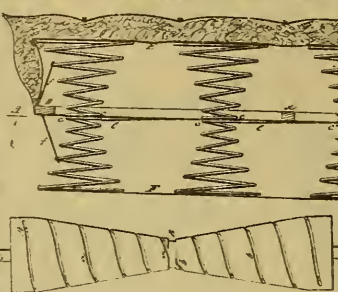
98,502. H. W. HUTCHINS. BOX



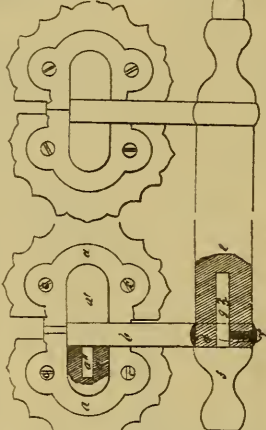
98,503. E. J. JOHNSON. WATER FILTER.



98,504. G. KENNY. GAGE AND DIVIDERS

98,505. S. P. KITTLE. SPIRAL SPRING
FOR MATTRESSES AND FURNITURE.

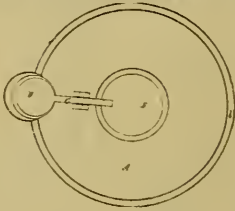
98,506. D. LEONARD. COFFIN HANDLE.



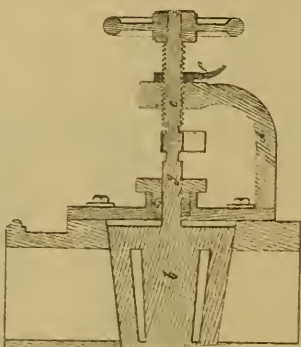
98,507. J. O. LEWIS. BELT TIGHTENER.

98,508. J. S. LOVEJOY. CURTAIN
FIXTURE.

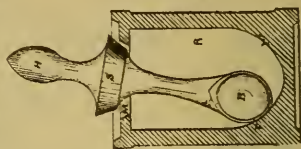
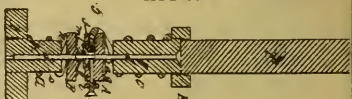
98,509. W. C. LOVERING. TEA KETTLE.



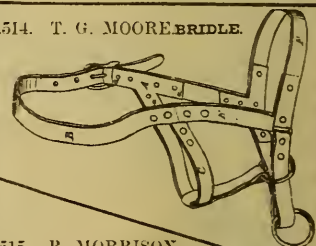
98,510. J. A. MARDEN. STOP VALVE.



98,511. T. H. MEAD. CRUET.

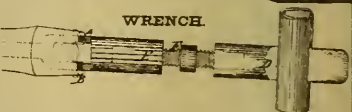
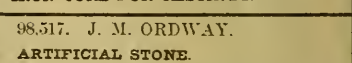
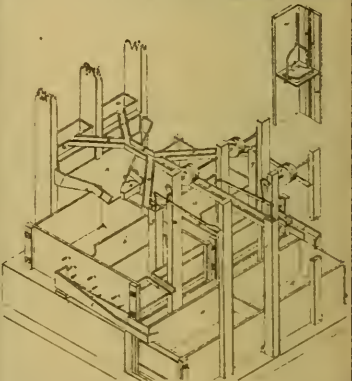
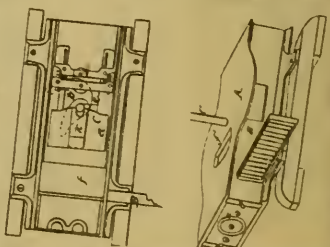
98,512. J. J. MERVESP.
ATTACHING BUTTONS.98,513. E. M. AND J. E. MIX.
INDICATOR LOCK.

98,514. T. G. MOORE. BRIDLE.

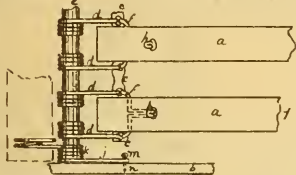


98,515. R. MORRISON.

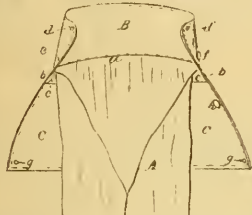
WRENCH

98,516. A. C. MOTT.
IRON CORE FOR CASTINGS.98,517. J. M. ORDWAY.
ARTIFICIAL STONE.98,518. A. F. W. PARTZ.
COLLECTING GOLD FROM ORES.98,519. J. W. PENFIELD.
TILE MACHINE.

98,520. J. POTTER. BED BOTTOM.

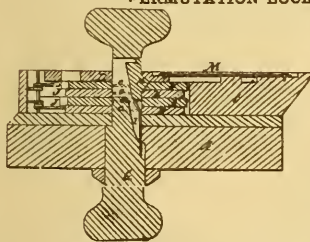


98,521 W. A. RAMSAY. SHIRT SLEEVE.

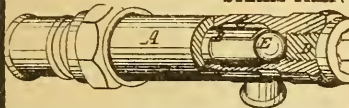


98,522 E. W. RANNEY. COMPOSITION FOR CONCRETE PAVEMENT.

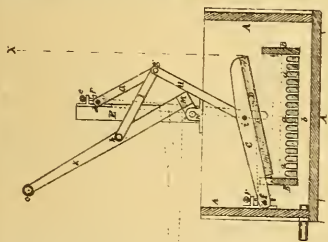
98,523. J. P. SCHMUCKER. PERMUTATION LOCK.



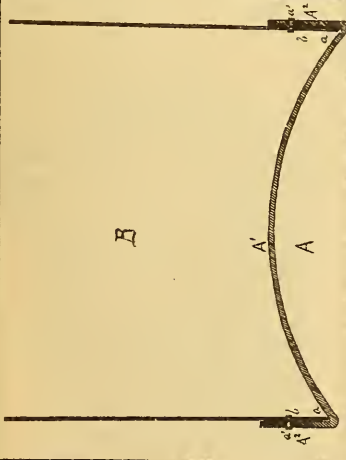
98,524. W. A. SCHNEIDER. STEAM TRAP.



98,525. J. SCOTT. WASHING MACHINE.



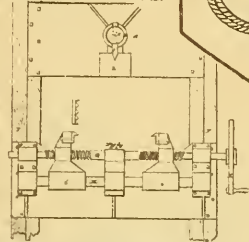
98,526. H. W. SHEPARD. CAN BOTTOM.



98,527. E. B. SOUTHWICK. BAG FASTENER.

98,528.

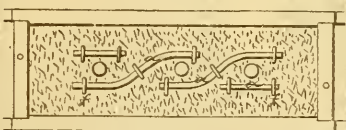
A. W. THOMPSON. HEAD BLOCK FOR SAW MILLS.



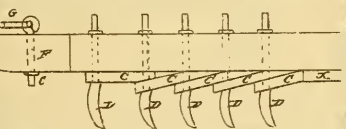
98,529. F. A. THUER. CARTRIDGE LOADER.



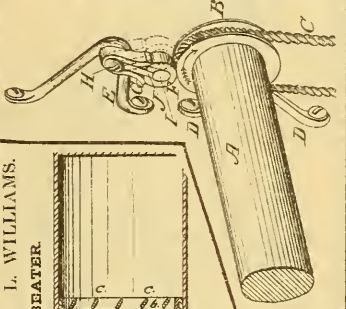
98,530. T. B. TITUS. CASTING SLEIGH SHOES.



98,531. M. VANBIBBER. HARROW.



98,532. R. WANGEMAN. STOP FOR CURTAIN ROLLERS.



98,533. L. WILLIAMS. EGG BEATER.

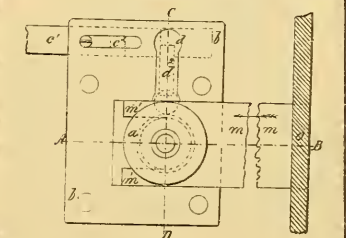


98,534. J. D. WILLIAMS. FIX FOR BOILING AND PUDDLING FURNACE.

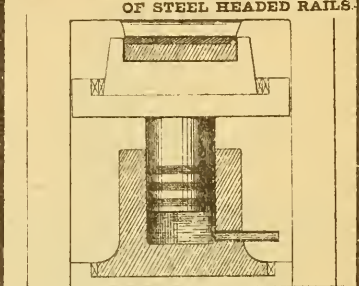


98,535. A. D. WILLIS. MEDICAL COMPOUND.

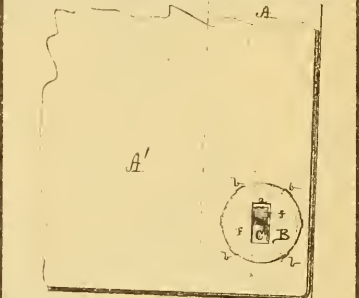
98,536. L. YALE, JR. PERMUTATION LOCK.



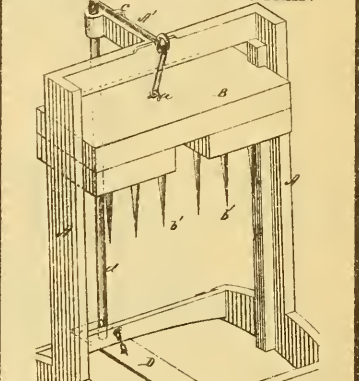
98,537. J. AMSTERDAM. MANUFACTURE OF STEEL HEADED RAILS.



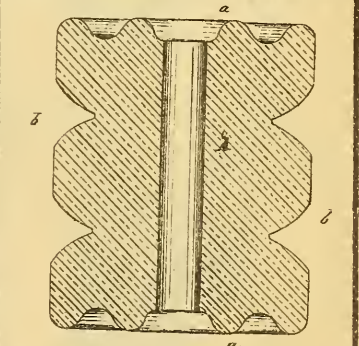
98,538. J. ADAMS. CURTAIN FASTENER.



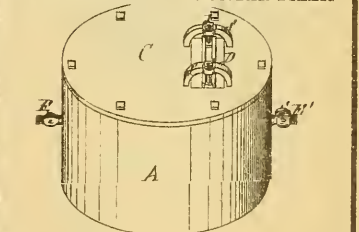
98,539. W. C. AKERS. MOLE TRAP.



98,540. H. A. ALDEN. CAR SPRING.

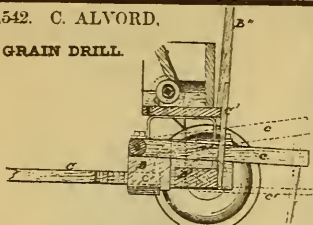


98,541. J. ALLONAS. LUMBER DRIER.



98,542. C. ALVORD.

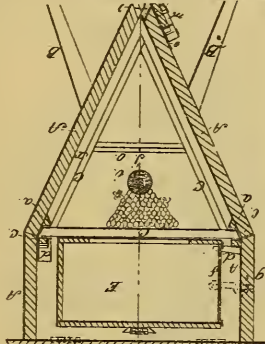
GRAIN DRILL.



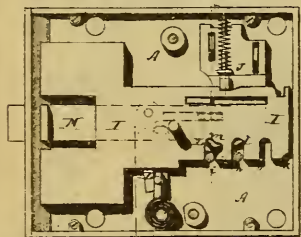
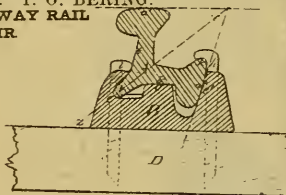
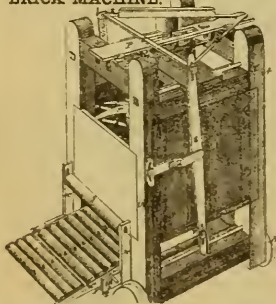
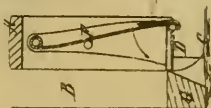
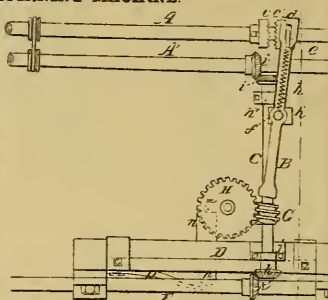
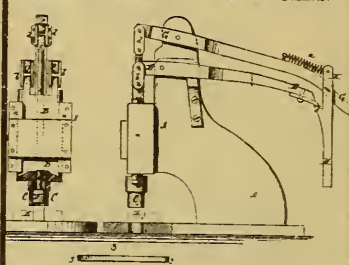
98,543. BAKER AND ENNIS. AXLE BOX.



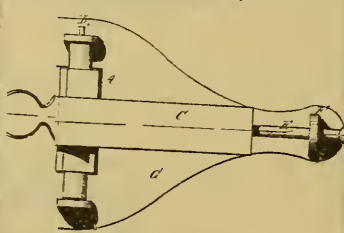
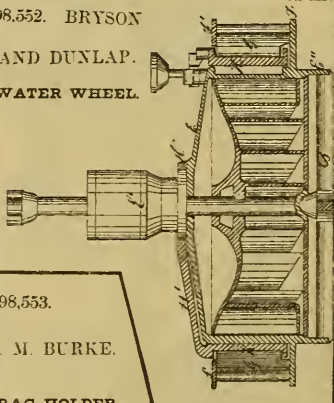
98,544. BARBER AND WOLF. BEE HIVE.



98,545. L. BEER. LOCK.

98,546. T. G. BERING.
RAILWAY RAIL
CHAIR.98,547. BISHOP AND AGNEW.
BRICK MACHINE.98,548. BLISS AND DAVENPORT.
WEATHER STRIP.98,549. BOTTOMLEY AND GREENWOOD.
SPINNING MACHINE.98,550. R. BRADY. CUTTING AND
PRESSING HEADS OF METAL CANS.

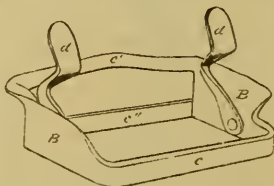
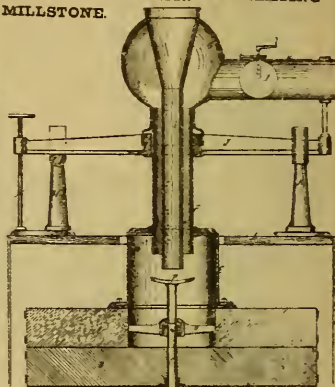
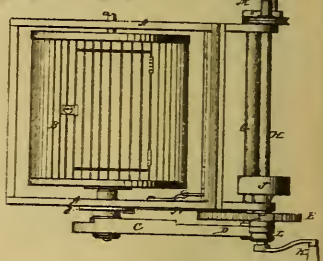
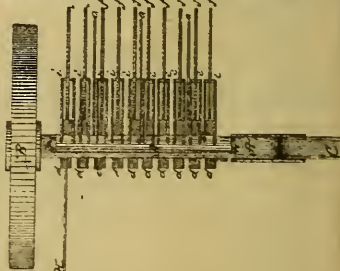
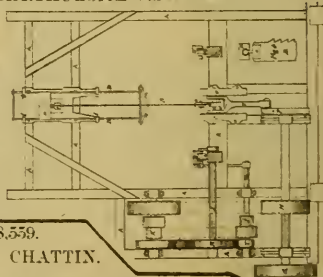
98,551. W. BROWN. HONE.

98,552. BRYSON
AND DUNLAP.
WATER WHEEL.

98,553.

J. M. BURKE.

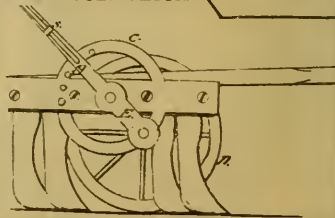
BAG HOLDER.

98,554. CALL AND GRIFFIN.
MEDICAL COMPOUND.98,555. C. CERISIER. VENTILATING
MILLSTONE.98,556. G. E. CHAMBERLIN.
WASHING MACHINE.98,557. M. C. CHAMBERLIN AND
A. CLAWSON.
CLEANER OR RAKE ATTACHMENT FOR
REAPERS.98,558. CHANDLER AND
BARTHOLOMEW. SAW MILL.98,559.
J. CHATTIN.

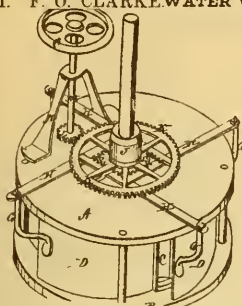
SCAFFOLD BRACKET.

98,560.
A. L. CHUBB.

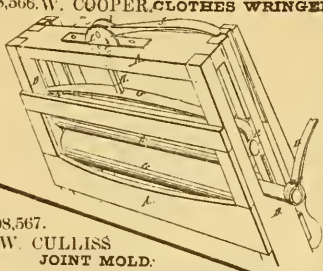
WHEEL CULTIVATOR.



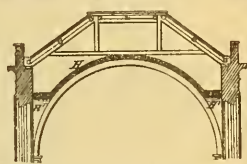
98,561. F. O. CLARKE. WATER WHEEL.



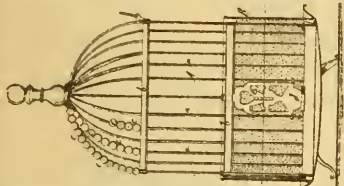
98,568. W. COOPER. CLOTHES WRINGER.



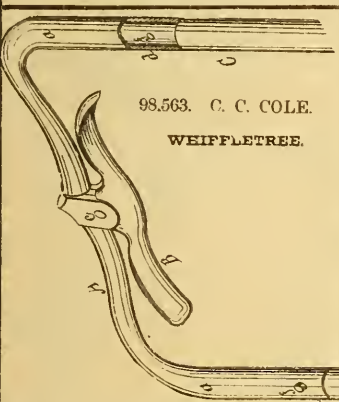
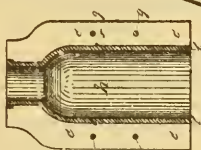
98,571. C. C. DENNETT. CONCRETE ARCH FOR BUILDINGS.



98,562. G. F. J. COLBURN. BIRD CAGE.

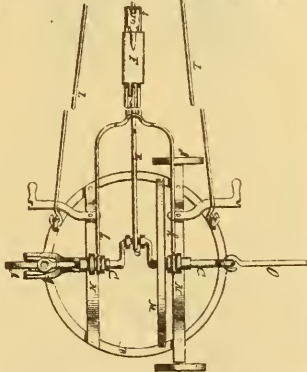


98,567. W. CULLISS. JOINT MOLD.

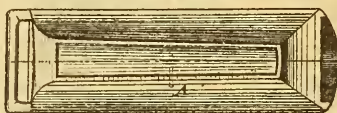


98,563. C. C. COLE. WEIFFLE TREE.

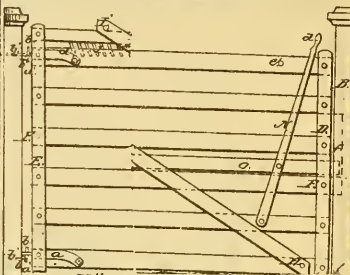
98,568. J. D. CULVER. DRAG SAW.



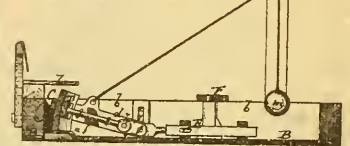
98,572. N. DICE. BUCKLE.



98,573. DICKASON AND CULP. FARM GATE.



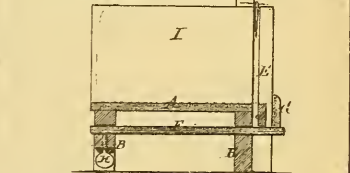
98,574. E. DOREMUS. STAVE JOINTER.



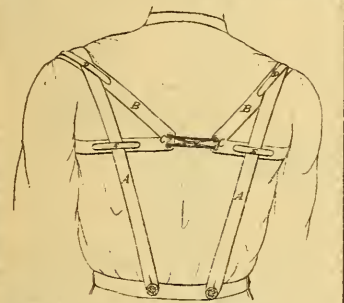
98,575. W. M. DOTY. PRUNING HOOK.



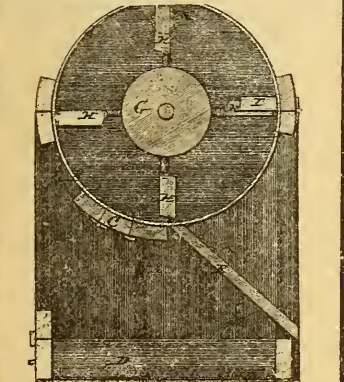
98,576. ENSINGER AND FERTIG. BREAD CUTTER.



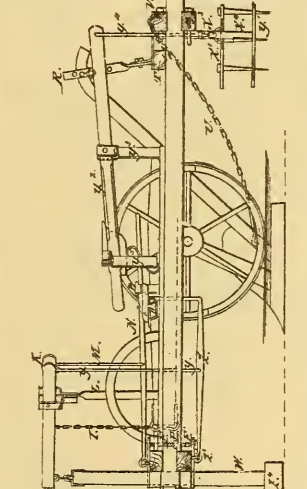
98,564. H. N. CONKLIN. SUSPENDER.



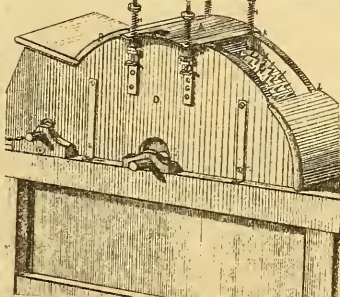
98,565. COOMBS AND GRAY. HOMINY MILL.



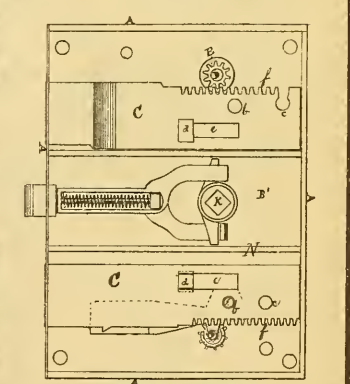
98,569. A. CUNNINGHAM. WHEEL PLOW.



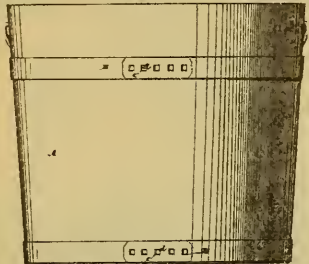
98,570. C. I. DEAN. PICKER GUARD.



98,577. E. FAY. LOCK.



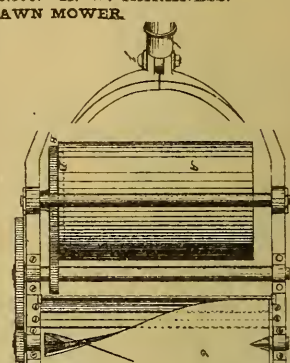
98,578. L. A. FLEMING. WOODEN PAIL.



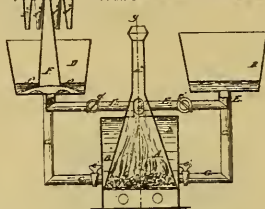
98,584. W. Q. GREELY. CANT HOOK.



98,590. H. W. HARKNESS. LAWN MOWER.



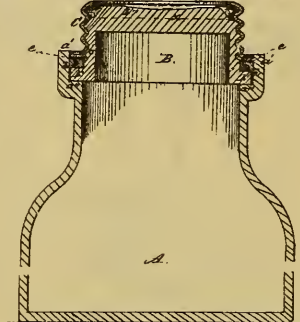
98,585. J. T. GROSE. WASHING APPARATUS.



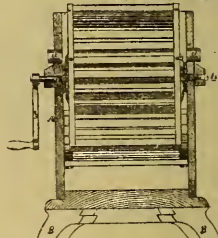
98,579. G. H. FOX. BREECH LOADER.



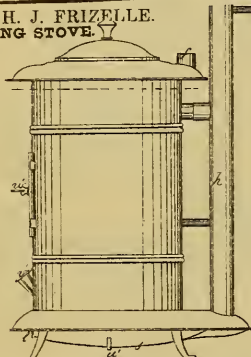
98,586. W. L. HALLER. FRUIT JAR.



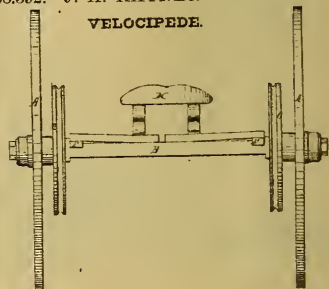
98,591. I. B. HARTT. WASHING MACHINE.



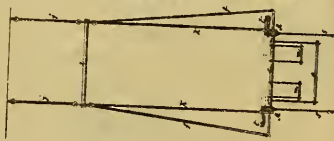
98,580. H. J. FRIZELLE. HEATING STOVE.



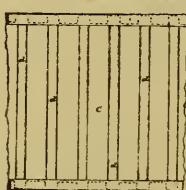
98,592. J. H. HAYNES. VELOCIPEDE.



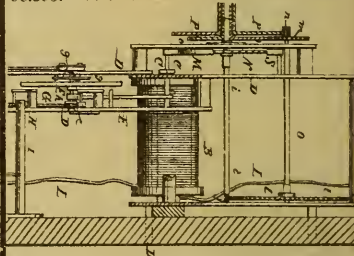
98,587. W. HANLON. GYMNASIUM APPARATUS.



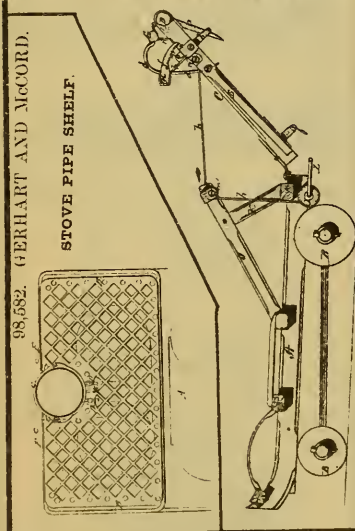
98,588. W. HANLON. GYMNASIUM APPARATUS.



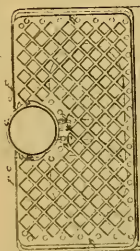
98,593. V. HIMMER. ELECTRIC CLOCK.



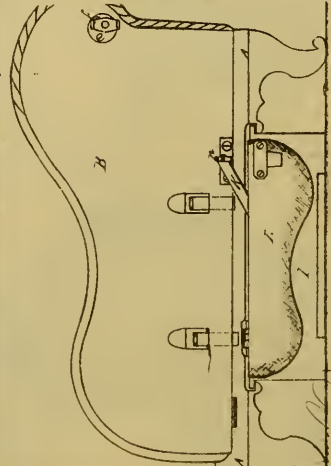
98,581. N. GABEL. HAY LOADER.



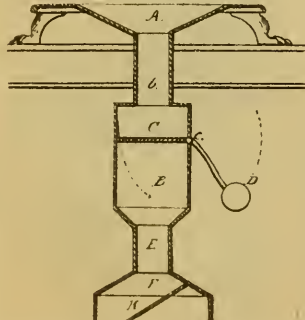
98,582. GERHART AND MCCORD. STOVE PIPE SHELF.



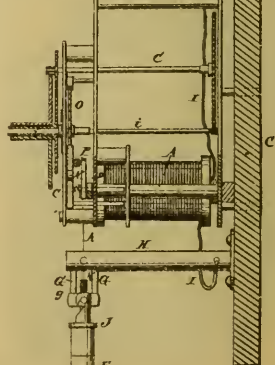
98,589. A. HANSEN. BED LOUNGE.

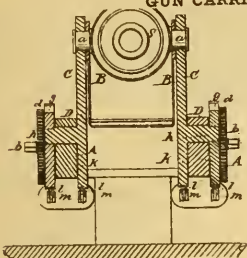


98,583. W. GLUCK. ASH PAN.

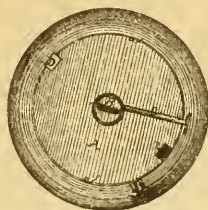
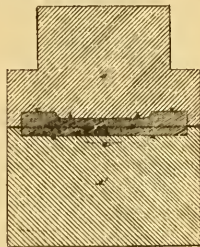


98,594. V. HIMMER. ELECTRIC CLOCK.

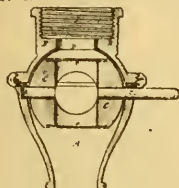


98,595. J. C. HOUEL
AND F. L. F. CAILLET.
GUN CARRIAGE.

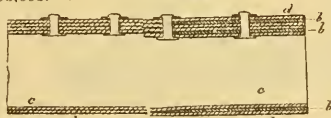
98,602. T. LANGSTON. LANTERN.

98,610. R. R. MILLER.
FORGING CARRIAGE SHACKLES.

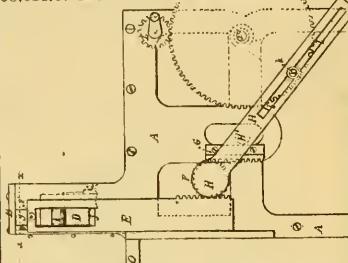
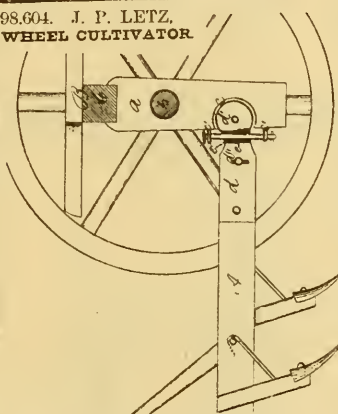
98,596. T. S. HUDSON. FILTER.



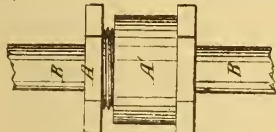
98,603. B. F. LEE. HOSE.



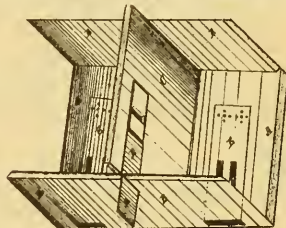
98,611. C. MONTAGUE. PAPER CUTTER.

98,604. J. P. LETZ.
WHEEL CULTIVATOR.

98,597. J. V. JEPSON. PIPE COUPLING.



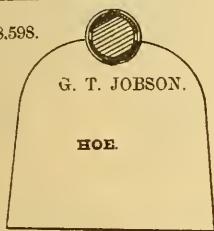
98,612. J. MONTGOMERY. BEE HIVE.



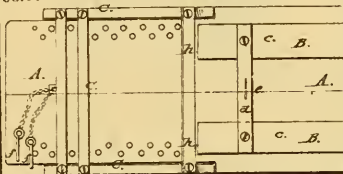
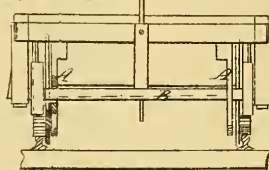
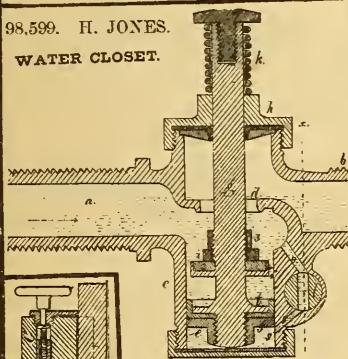
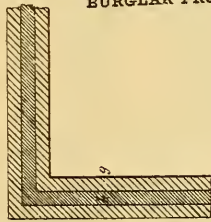
98,598.

G. T. JOBSON.

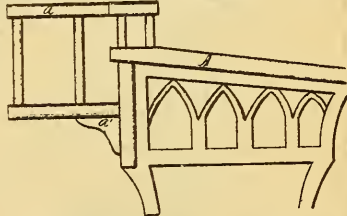
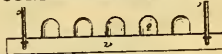
HOE.



98,605. S. P. LOOMIS. SCAFFOLD.

98,613. MORRIS AND FRANKLIN.
TRACK CLEARER.98,599. H. JONES.
WATER CLOSET.98,606. W. J. LYND.
PROCESS OF PREPARING COAL FOR
SMELTING ORE.98,607. W. J. LYND. COAL FOR
METALLURGICAL OPERATIONS.98,608. W. K. MARVIN.
BURGLAR PROOF SAFE.

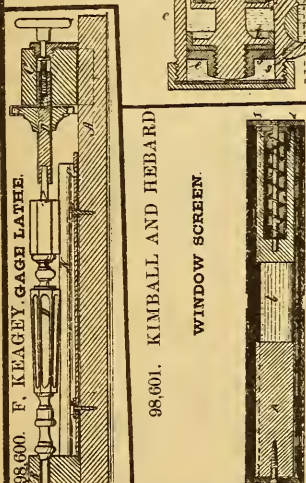
98,614. G. MUNGER. DESK.

98,615. MURDOCK AND HAYNES.
CONFECTIONER'S TOOL.

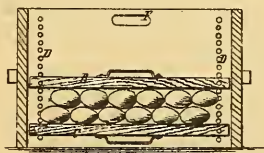
98,600. F. KEAGEY. GAGE LATHE.

98,601. KIMBALL AND HEBARD.

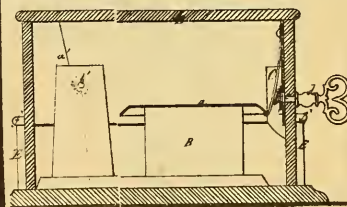
WINDOW SCREEN.

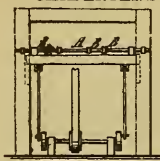


98,609. J. D. MICHAEL. EGG BOX.

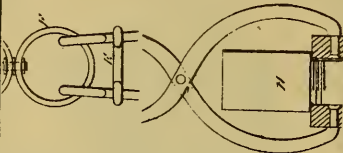
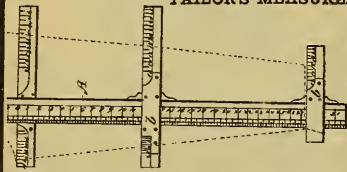


98,616. H. A. NAUEN. LOCK.

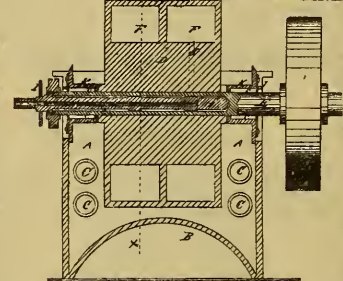
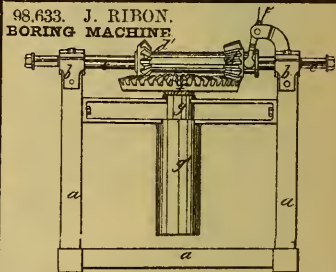


98,617. G. M. NICKASON
CARPENTER'S MARKER

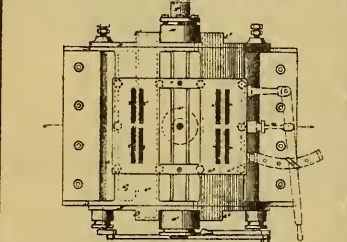
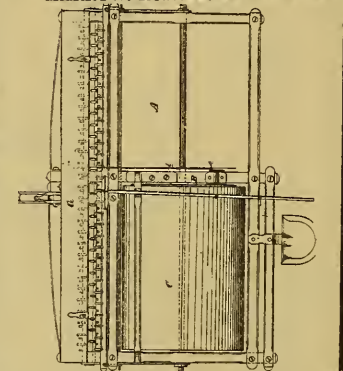
98,625. D. PHILLIPS. TUBE CLAMP.

98,632. G. M. RHOADES.
MECHANICAL GEARING.98,618. I. J. ORDWAY.
TAILOR'S MEASURE.

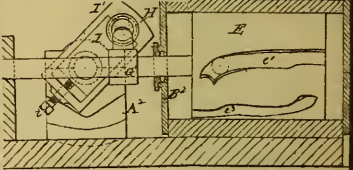
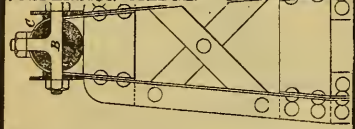
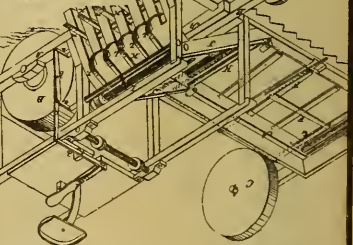
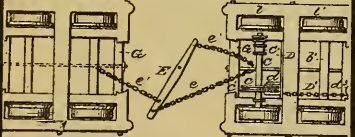
98,626. G. H. POND. ROTARY ENGINE.

98,633. J. RIBON.
BORING MACHINE.

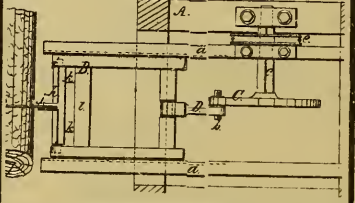
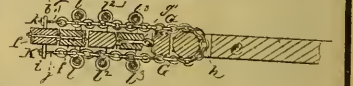
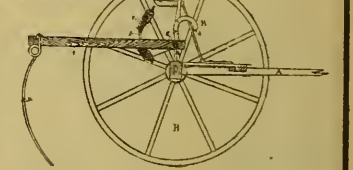
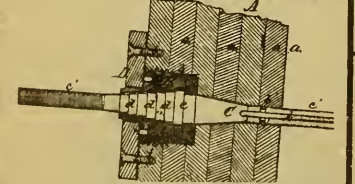
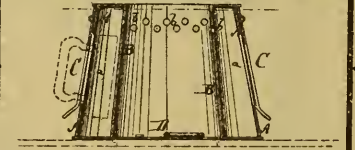
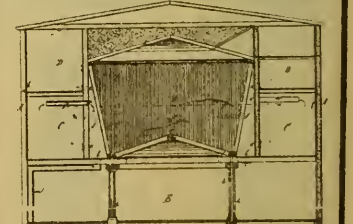
98,619. F. OHTLEIB. ROTARY ENGINE.

98,627. A. POWELL.
HARROW, ROLLER, AND SEEDER.

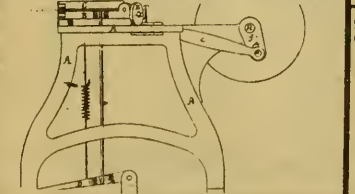
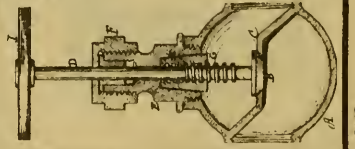
98,634. A. K. RIDER. LIQUID METER.

98,620. C. H. PARKER.
SUSPENSION BRIDGE.98,635. M. H. RIPLEY.
HARVESTER.98,621. PEASE AND SKINNER.
CAR BRAKE.

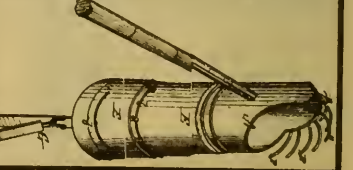
98,628. D. R. PRATT. DRAG SAW.

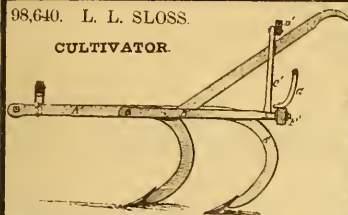
98,636. ROBIN AND BURK.
STEERING APPARATUS.98,622. J. SARGENT.
PERMUTATION LOCK.98,637. C. W. SANBORN.
HORSE HAY RAKE.98,623. J. SARGENT.
PERMUTATION LOCK.98,629. J. G. REDLINE.
SAD IRON HEATER.98,638. J. J. SCHILLINGER.
REFRIGERATOR FOR BUILDINGS.

98,624. A. PELISSE. HAT STRETCHER.

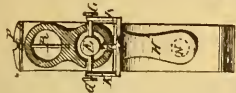
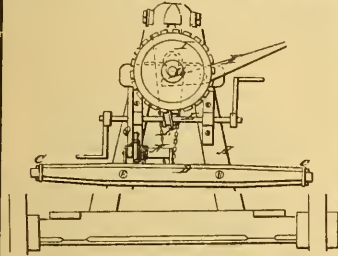
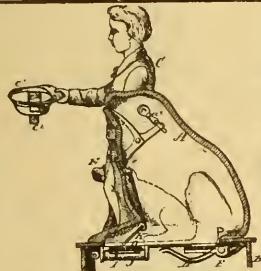
98,631. G. W. REISINGER.
GLOBE VALVE.

98,639. D. F. SLANE. FRUIT GATHERER.

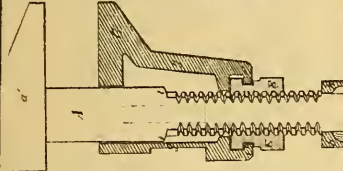
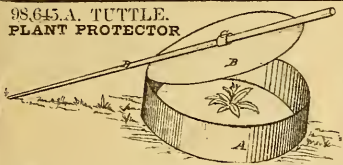


98,640. L. L. SLOSS.
CULTIVATOR.

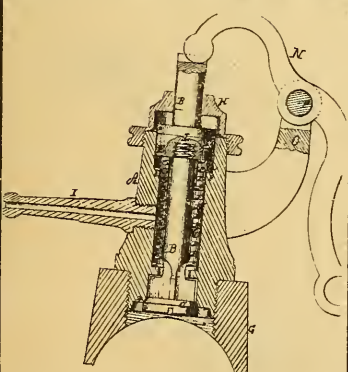
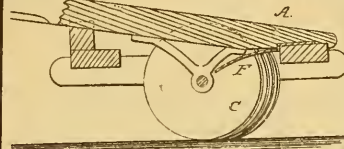
98,641. C. F. SMITH. TOY PISTOL.

98,642. S. SMITH.
STUMP AND ROCK LIFTER.98,643. W. P. X. SMITH.
TOY MONEY BOX.

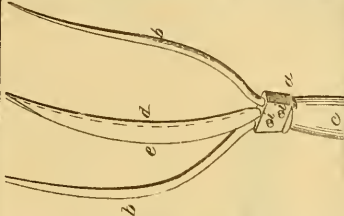
98,644. G. C. TAFT. WRENCH.

98,645. A. TUTTLE.
PLANT PROTECTOR.

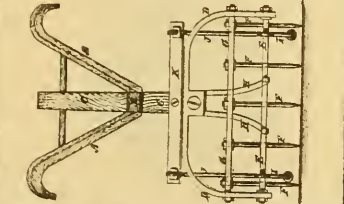
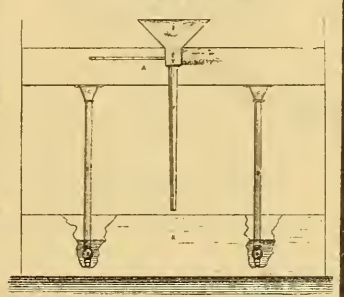
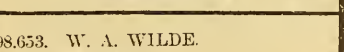
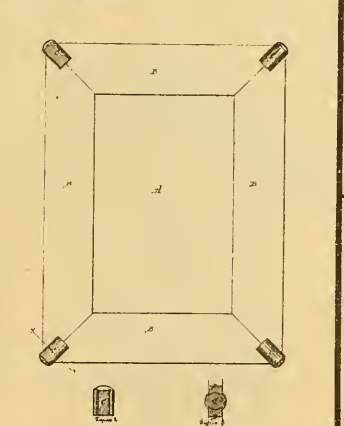
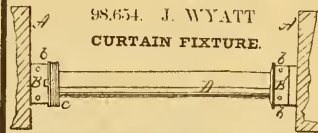
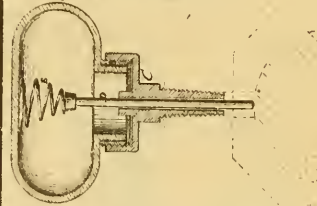
98,646. C. R. VAILLANT GAGE COCK.

98,647. A. L. P. VAIRIN.
WHEEL BARROW.

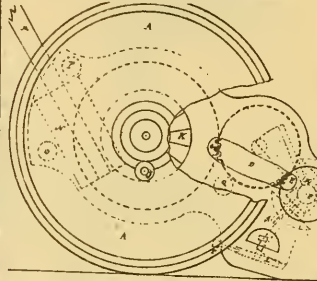
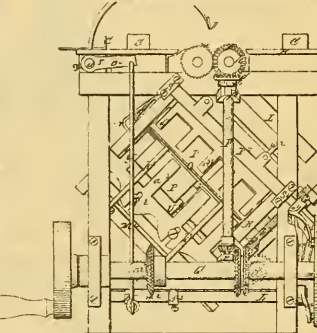
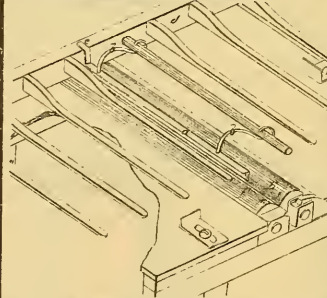
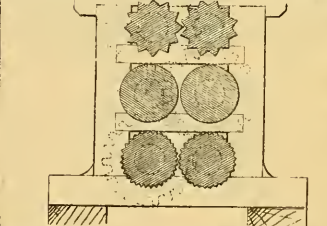
98,648. G. VAN SICKLE. BAND-CUTTER.

98,649. T. VAN WAGONER.
CURTAIN ROLLER.

98,650. B. F. WARD. CULTIVATOR.

98,651. WARNER AND CROOKS.
TANNING APPARATUS.98,652. S. WHITMARSH.
COMPOSITION FOR FLOORING.98,653. W. A. WILDE.
SLATE FRAME.98,654. J. WYATT
CURTAIN FIXTURE.98,655. R. S. HILDRETH.
LUBRICATOR.

3,784. S. COIT. LAWN MOWER.

3,785. S. C. FORSAITH.
PAPER FOLDING MACHINE.3,786. S. C. FORSAITH.
COMBINING PAPER FOLDING MACHINE
WITH PRINTING PRESS.3,787. W. H. PERRY.
MANUFACTURE OF BAR IRON.

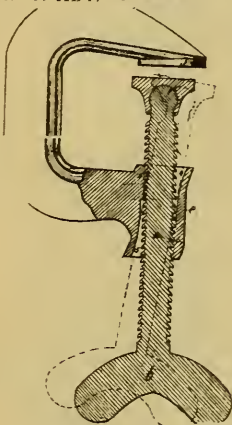
ILLUSTRATIONS OF PATENTS

ISSUED FROM

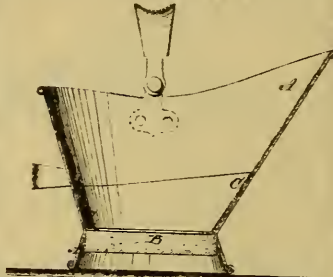
THE UNITED STATES PATENT OFFICE

JANUARY 11, 1870.

98,656. J. ADT. CLAMP.

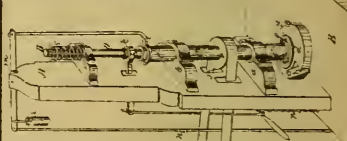


98,661. F. L. BLAIR. COAL SCUTTLE.

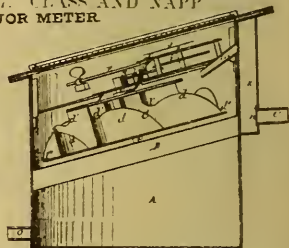


98,666. P. CHASE.

CUTTING BARREL HEADS

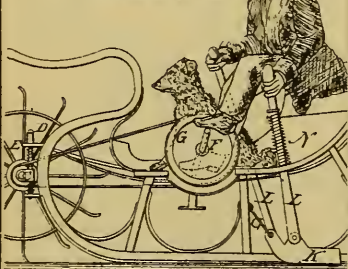


98,667. CLASS AND NAPP LIQUOR METER.

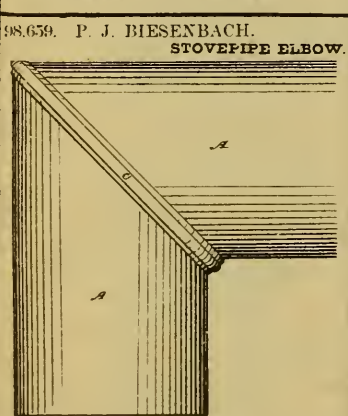


98,657. D. M. ANDERSON.

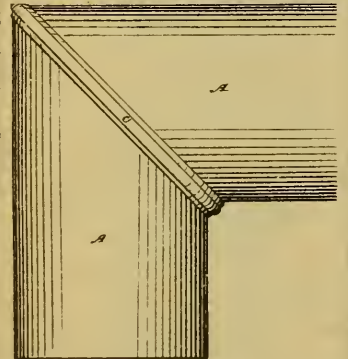
VELOCIPED SLEIGH.



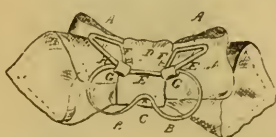
98,658. H. M. BAKER. PROCESS OF CLEANING COTTON WASTE.



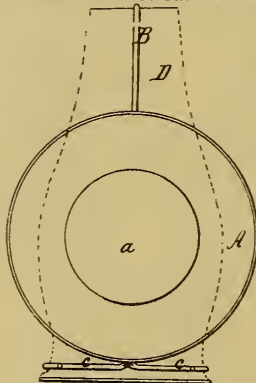
98,659. P. J. BIESENBACH. STOVEPIPE ELBOW.



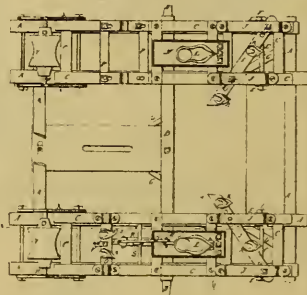
98,660. J. B. BISHOP. NECKTIE.



98,662. E. C. BLAKESLEE. REFLECTOR.



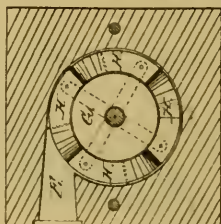
98,663. N. BREED. CORN PLANTER AND CORN CULTIVATOR.



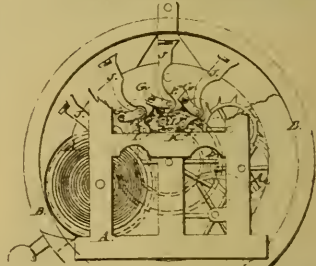
98,664. C. L. BUSHNELL CANE.



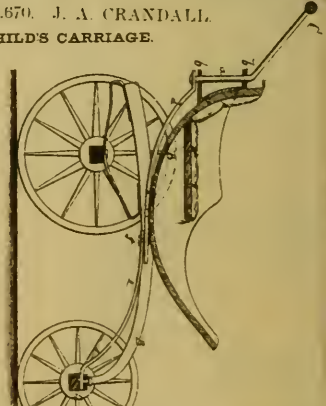
98,665. H. A. CHADWICK. WATER WHEEL.

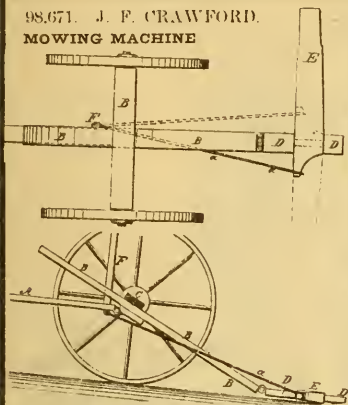
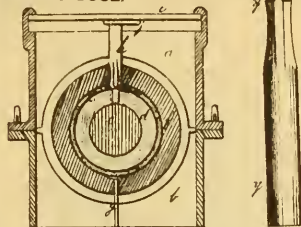


98,669. A. COURVOISIER. TIME CHECK.

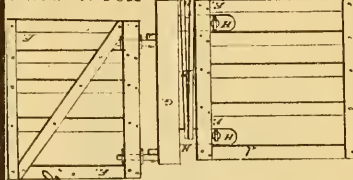


98,670. J. A. CRANDALL. CHILD'S CARRIAGE.

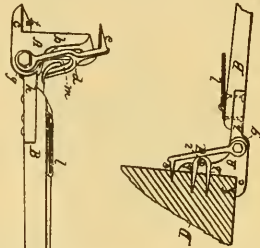
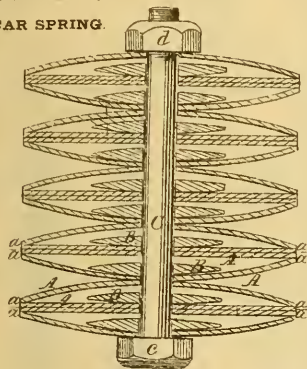
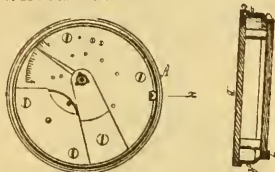


98,671. J. F. CRAWFORD.
MOWING MACHINE98,676. Z. ELLIS.
CASTING TOOL.

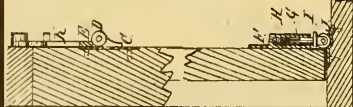
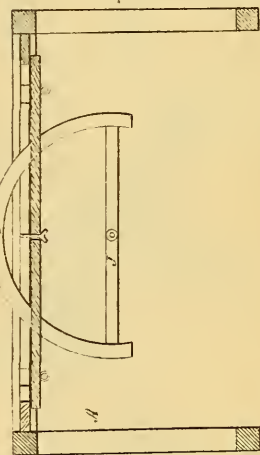
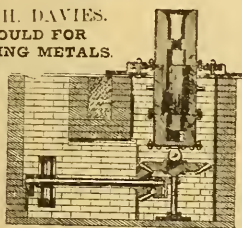
98,682. J. FOX. FENCE.



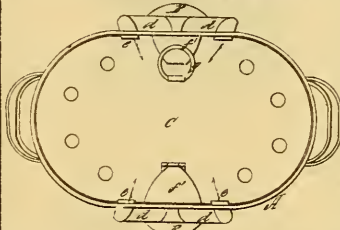
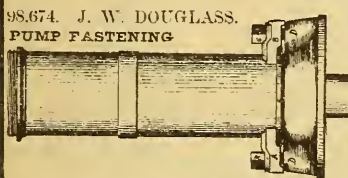
98,683. A. FREEMAN. LIFTING JACK.

98,672. D. G., DANIELS.
CAR SPRING.98,677. S. D. ENGLE.
WATCH DUST CAP.

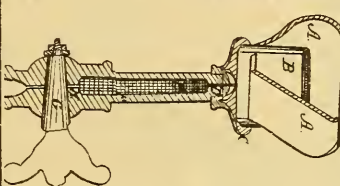
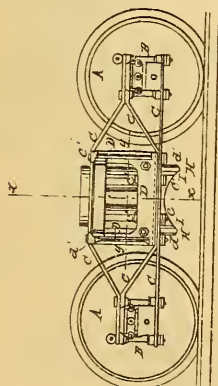
98,684. F. W. GAMMELL. LATCH.

98,685. F. GERRARD.
LOCOMOTIVE WATER PIPE.98,673. H. DAVIES.
MOULD FOR
CASTING METALS.

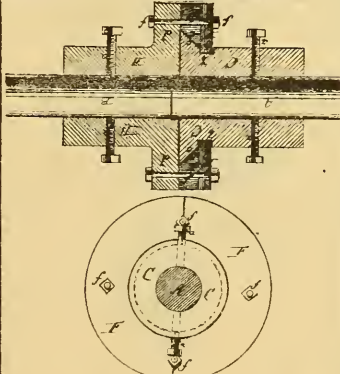
98,679. T. EVANS. WASH BOILER.

98,674. J. W. DOUGLASS.
PUMP FASTENING

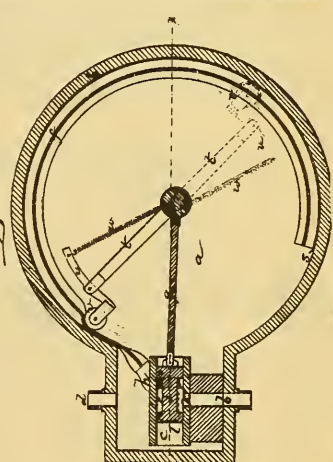
98,680. J. E. FINLEY. VAPOR BURNER.

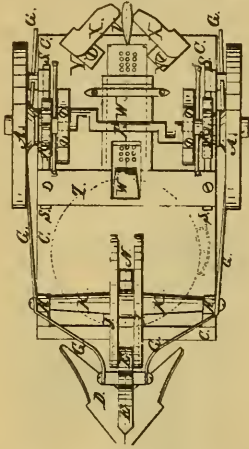
98,675. I. DRIPPS.
RAILWAY CAR TRUCK

98,681. D. F. FETTER. CAR AXLE.

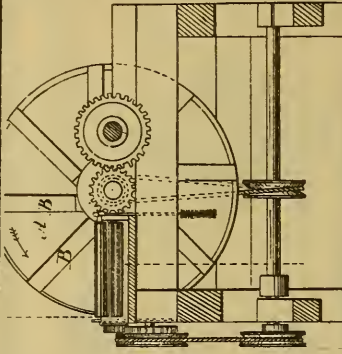


98,686. O. GILMORE. WATER METER.

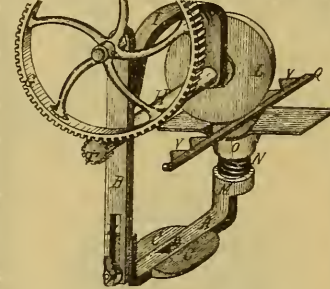
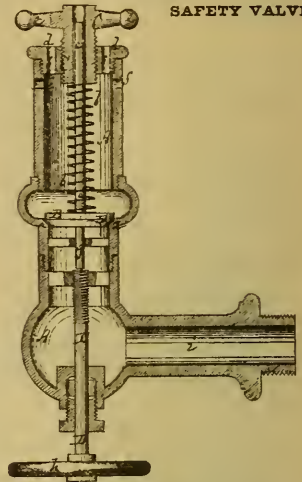


98,687. S. T. GODFREY.
POTATO PLANTER.

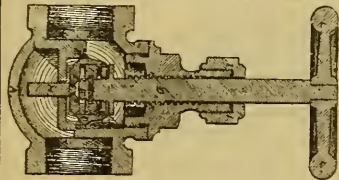
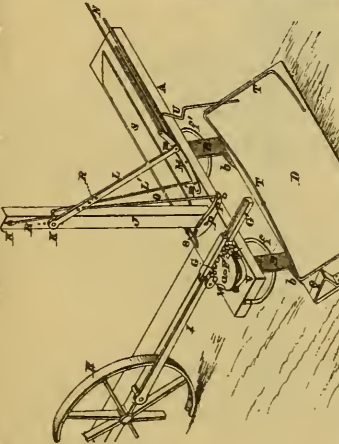
98,692. J. W. BARBOUR. RAG ENGINE.



98,693. A. B. JONES. SICKLE GRINDER.

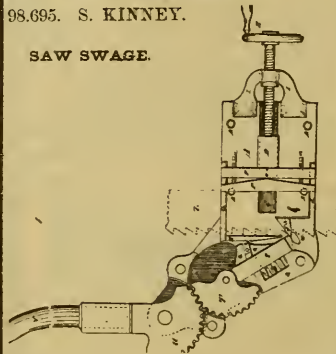
98,697. T. S. LA FRANCE.
SAFETY VALVE.

98,688. E. J. GOULD. GLOBE VALVE.

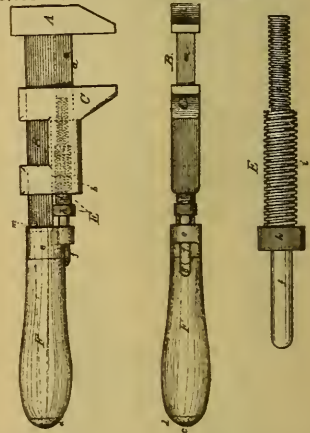
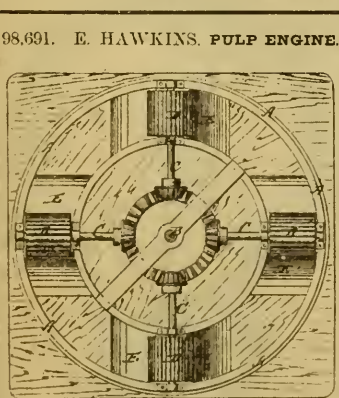
98,689. O. C. GREEN.
HARVESTER DROPPER.98,694. M. AND A. D. JUDD.
WINDOW BUTTON.

98,695. S. KINNEY.

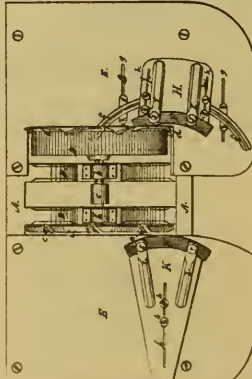
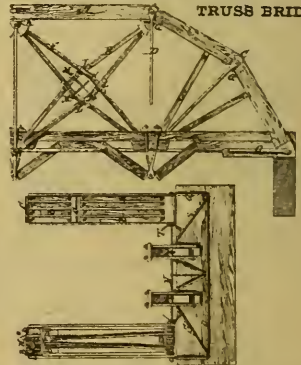
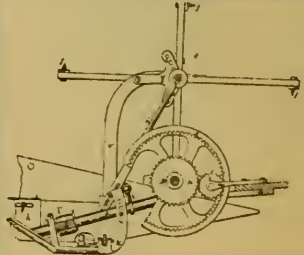
SAW SWAGE.



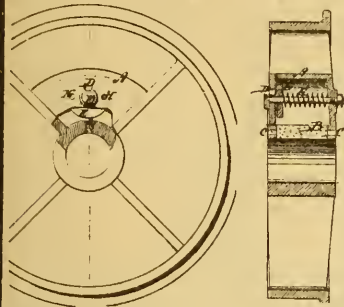
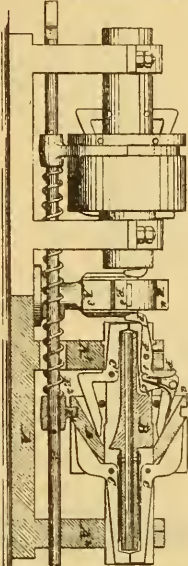
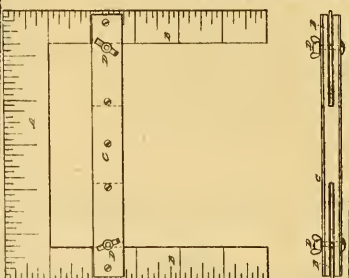
98,698. A. B. LIPSEY. WRENCH.

98,690. H. H. GRIGGS.
MEDICAL COMPOUND.

98,696. H. KURTZ. FELLOE MACHINE.

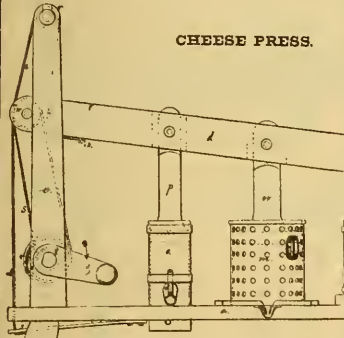
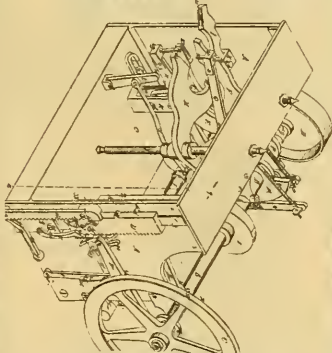
98,699. H. S. McDOWELL.
TRUSS BRIDGE.98,700. C. G. MILLER AND
B. KIRSTING. HARVESTER RAKE.

98,701. T. J. MOOERS. CAR WHEEL.

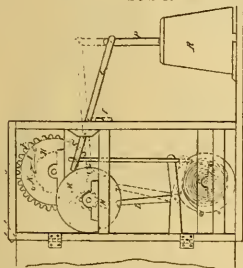
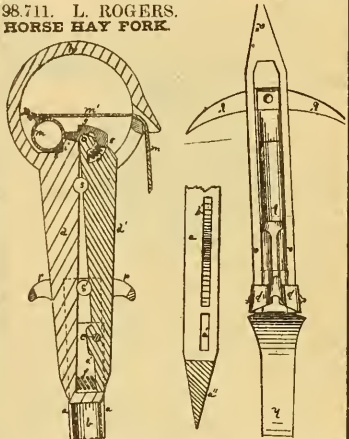
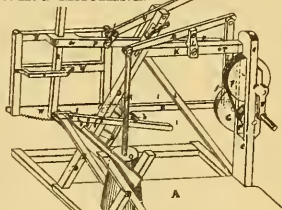
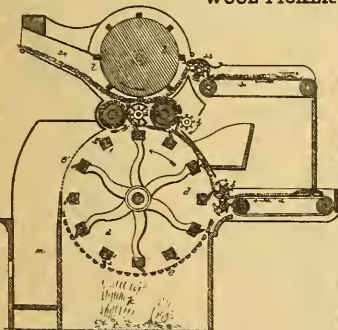
98,706. P. AND F. PHILIP
MAKING WIRE HEDDLES.98,710. E. H. ROBINSON.
RULING DEVICE.

98,702. C. C. MUSSELMAN.

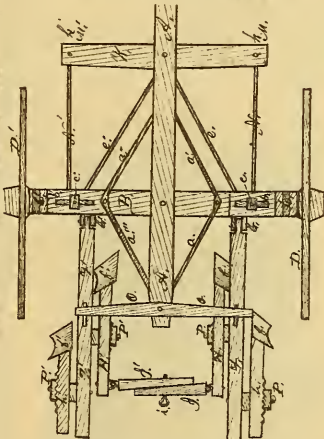
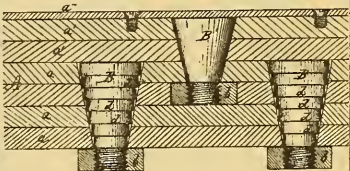
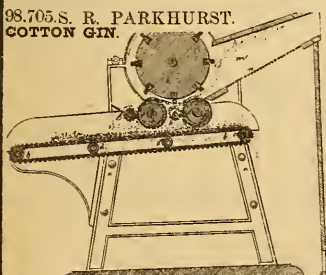
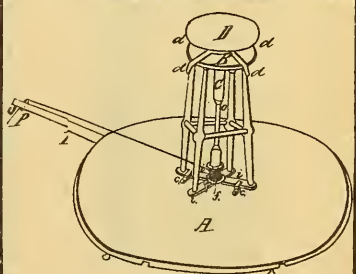
CHEESE PRESS.

98,707. S. S. PUTNAM.
HORSESHOE NAIL MACHINE.

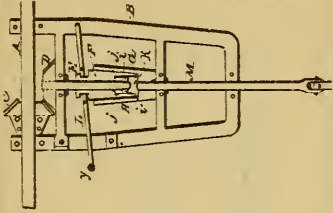
98,703. J. P. NICHOLS. CHURN.

98,711. L. ROGERS.
HORSE HAY FORK.98,712. J. A. ROTHE. TO OBTAIN FIBRE
FROM VEGETABLES FOR PAPER, &c.98,713. C. W. SALADEE.
SAWING MACHINE.98,704. S. R. PARKHURST.
WOOL PICKER.

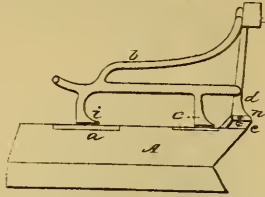
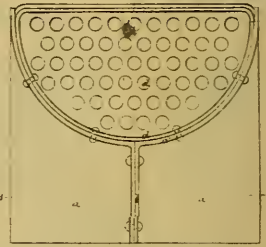
98,708. W. B. RAPER. CORN FLOW.

98,714. J. SARGENT.
BURGLAR PROOF SAFE.98,705. S. R. PARKHURST.
COTTON GIN.98,709. D. RENSHAW.
SPRING HINGE.98,715. N. P. SLADE.
CHECK FOR HORSE POWER.

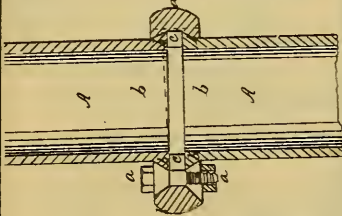
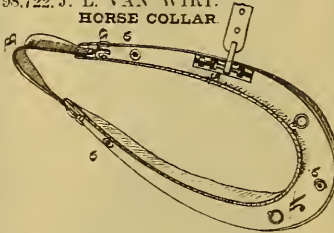
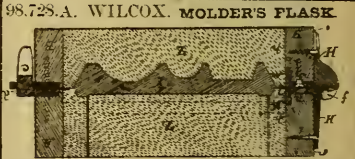
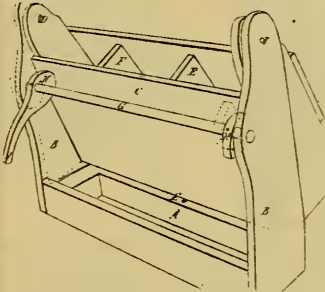
98,716. E. SLATER. CAR BRAKE.



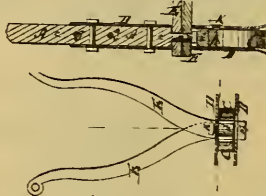
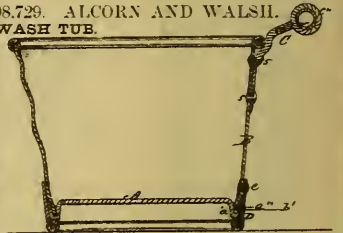
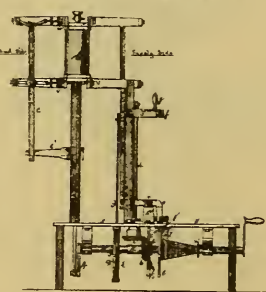
98,721. S. TOOMEY. CARRIAGE SEAT.

98,726. F. W. WEBB.
BOILER FURNACE.

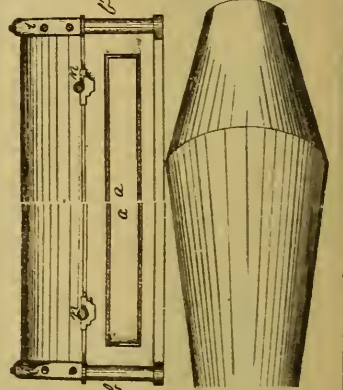
98,717. E. SMITH. PIPE COUPLING.

98,722. J. L. VAN WIRT.
HORSE COLLAR.98,727. W. M. WELLING.
COMPOSITION RESEMBLING HORN.98,718. N. STOCKWELL.
APPARATUS FOR FEEDING SWINE.

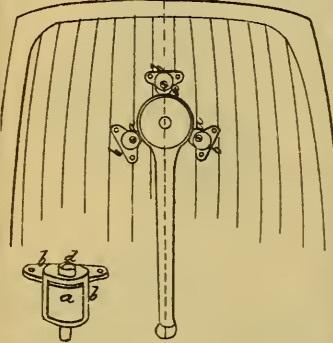
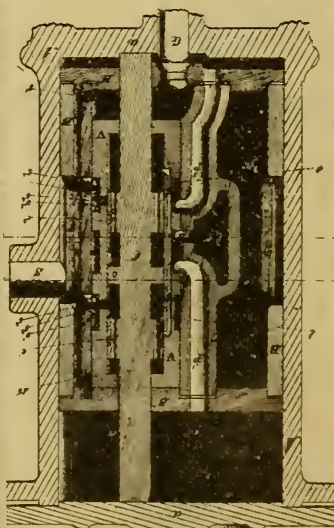
98,723. J. B. VEDDER. CAR COUPLING.

98,729. ALCORN AND WALSH.
WASH TUB.98,724. C. W. WAILEY.
CUT-OFF VALVE GEAR.

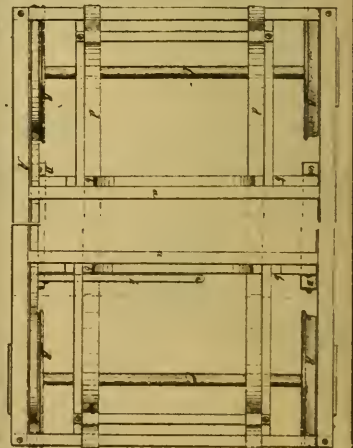
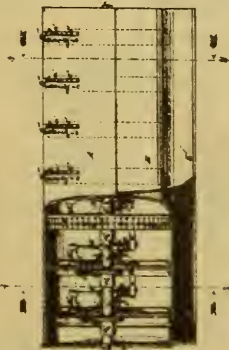
98,730. W. G. ALGEO. COFFIN.



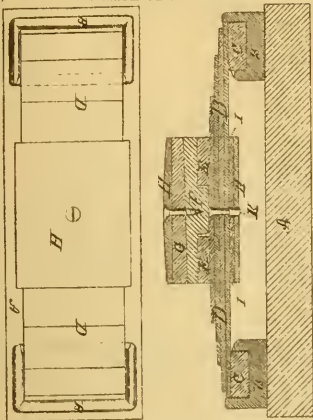
98,719. R. C. STURGES. STEERING.

98,725. G. I. WASHBURN.
SLIDE VALVE.

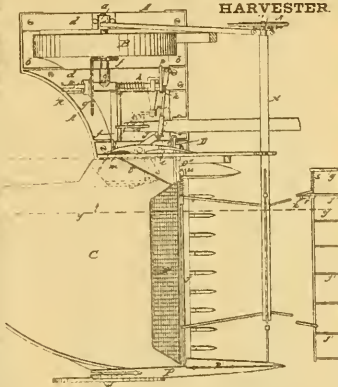
98,731. A. M. ALLEN. CAR BRAKE.

98,720. E. A. SWAIN.
ADDING MACHINE.

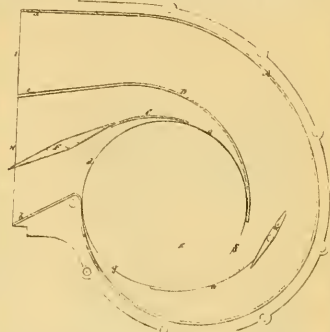
98,732. T. F. ALLYN. CAR SPRING.



98,737. C. R. BRINKERHOFF. HARVESTER.



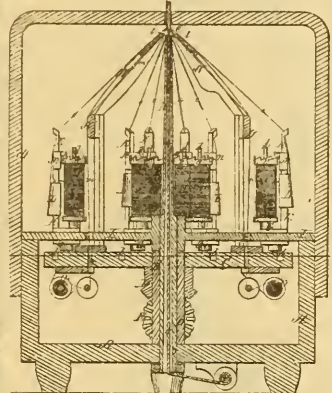
98,741. J. CHASE. WATER WHEEL.



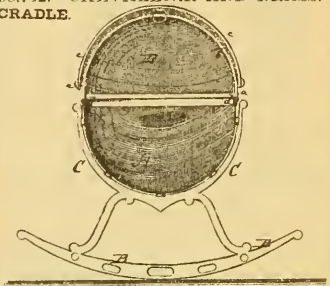
98,733. S. A. BARKER. COFFIN TRIMMING.



98,738. M. C. BRYANT. WEAVING MACHINE.

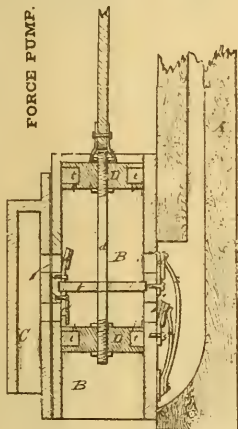


98,742. CHEVALLIER AND BRASS. CRADLE.

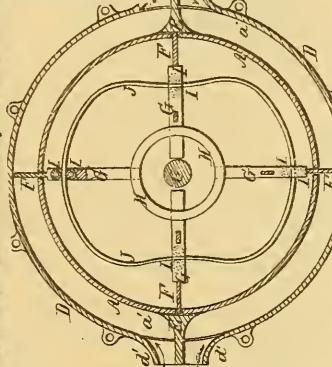


98,734. BEERS AND RAYNOR.

FORCE PUMP.

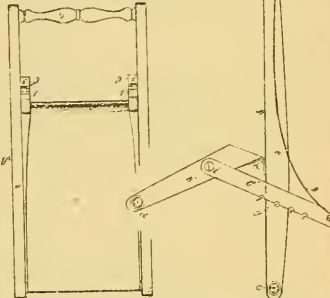


98,739. E. M. BUCKLEY. WATER WHEEL.

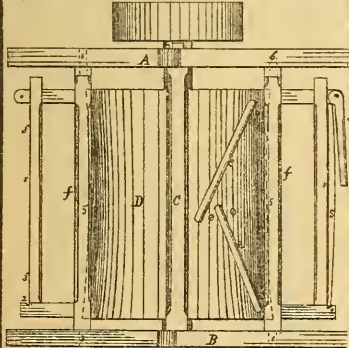


98,743. T. B. COMINS, JR.

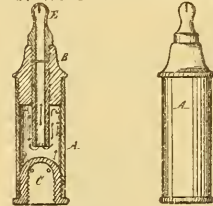
FOLDING CHAIR.



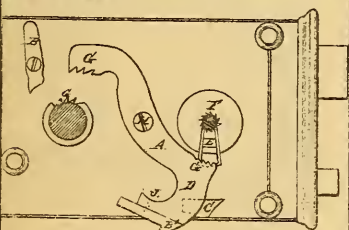
98,735. J. B. BELL. STAVE JOINTER.



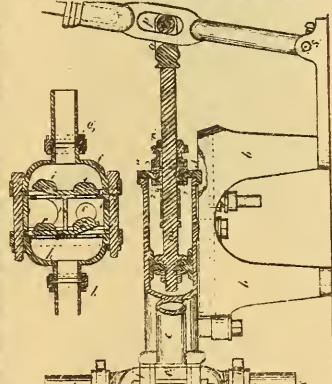
98,744. J. W. CREMIN. GAS BURNER.



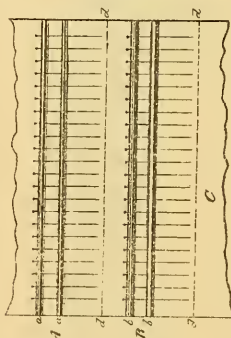
98,736. W. E. BEROLZHEIMER. KEY GUARD.

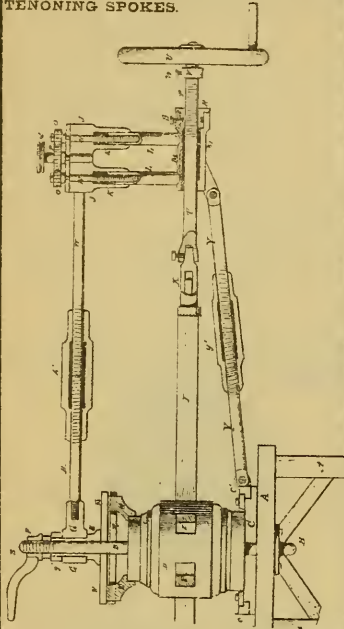


98,740. W. S. CARR. FORCE PUMP.

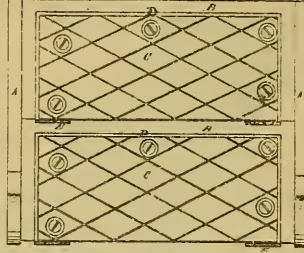
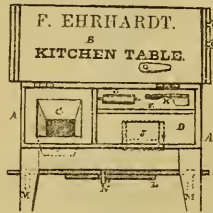
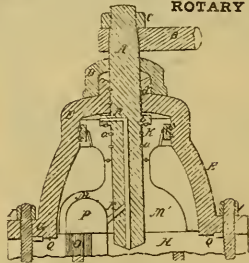
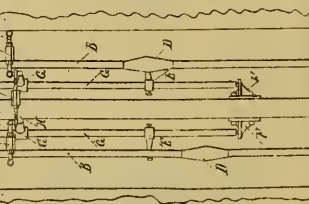


98,745. C. O. CROSBY. PAPERING PINS.

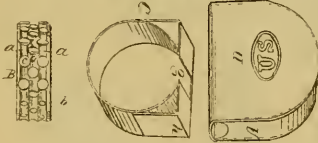


98,746. CRITCHFIELD AND WHITTEN.
TENONING SPOKES.

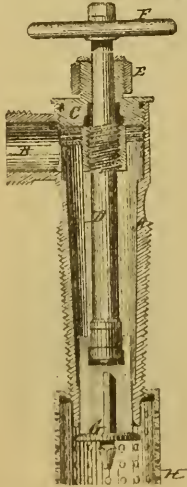
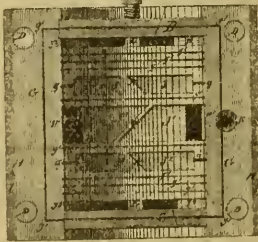
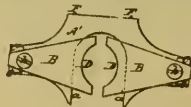
98,750. A. A. DULY. STREET CAR.

98,751. F. EHRHARDT.
KITCHEN TABLE.98,752. W. W. FIFIELD.
SASH CORD GUIDE.98,753. I. W. FORBES.
ROTARY VALVE.98,754. I. W. FORBES.
STEAM ENGINE VALVE GEAR.

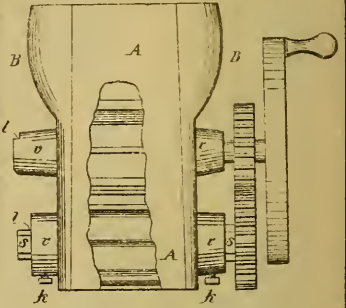
98,748. S. A. DAY. CARTRIDGE BOX.



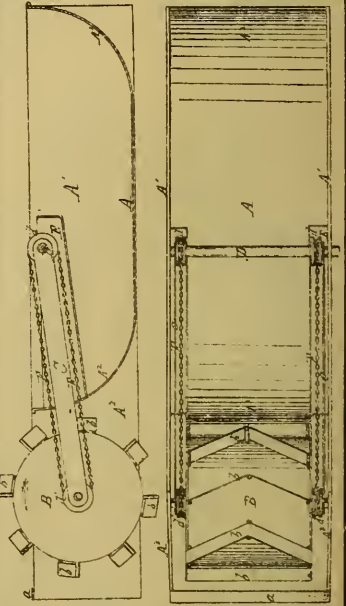
98,749. J. H. DORST. FAUCET.

98,755. I. W. FORBES.
BALANCE VALVE.98,756. FRANKLIN AND CLARK.
BROOM HANGER.

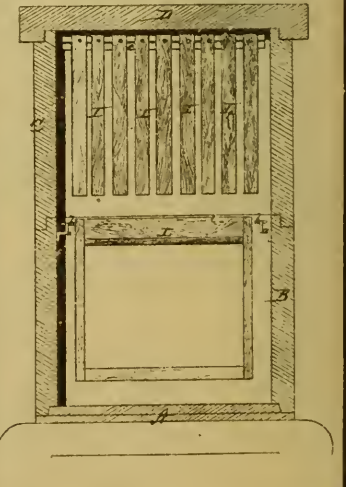
98,757. O. S. GARRETSON. CIDER MILL.

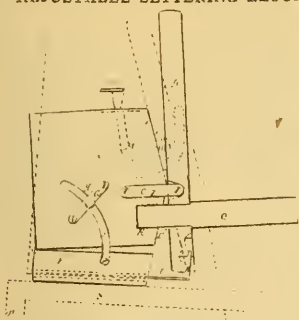
98,758. W. L. GILROY. PROCESS OF
PRESERVING GREEN CORN.98,759. M. A. GOODENOUGH.
FEATHER DUSTER.

98,760. W. F. GOODWIN. PROPELLER.

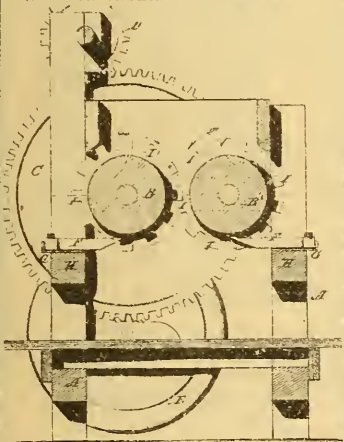
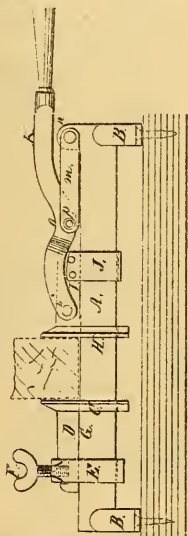


98,761. J. GOULD. BEE HIVE.

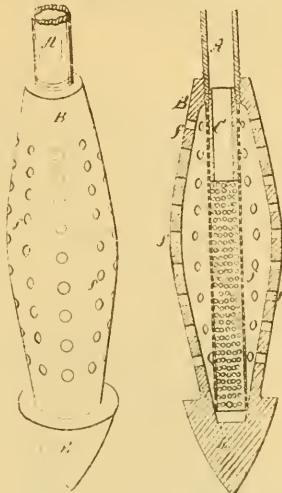


98,762. E. J. GRIFFIN.
ADJUSTABLE LETTERING BLOCK.98,763. J. HABERMEHL.
WASHING MACHINE.

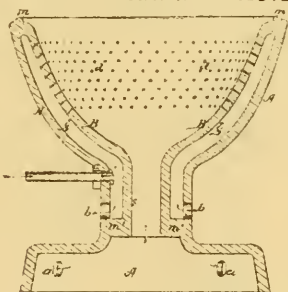
98,764. A. HALL CLAY CRUSHER.

98,765. HALL AND FARRA.
SASH AND DOOR CLAMP.

98,766. J. HARTER TUBULAR WELL.

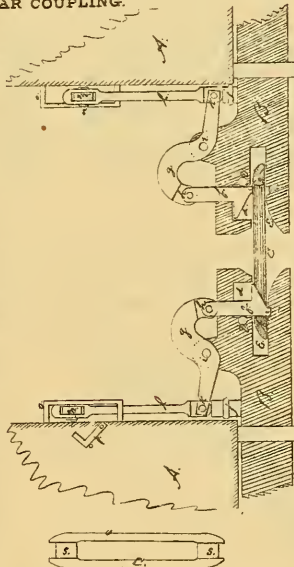
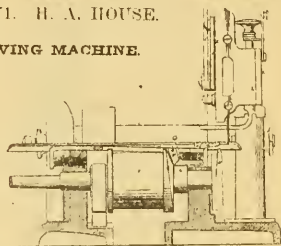


98,767. D. G. HASKINS GAS STOVE.

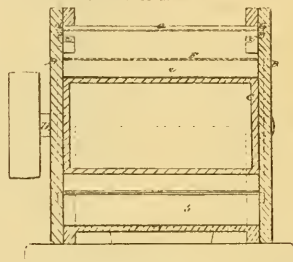
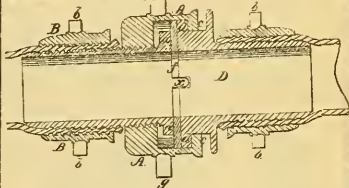


98,768. CANCELLED.

98,769. E. F. HOFMAN PESSARY.

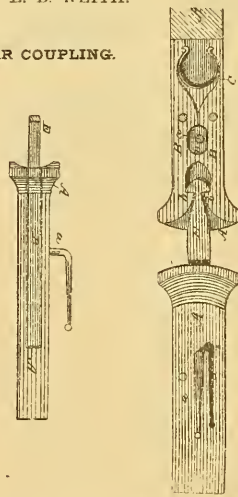
98,770. C. F. HORNBECK.
CAR COUPLING.98,771. H. A. HOUSE.
SEWING MACHINE.

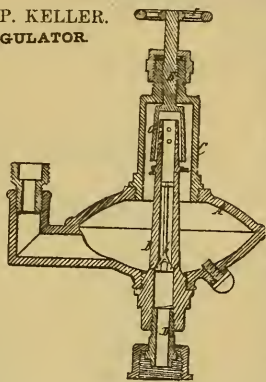
98,772. C. W. ISBELL ROTARY PUMP.

98,773. A. P. M. JEFFERS.
SPELLING BOX.98,774. JOHNSON AND FITZGERALD.
HOSE COUPLING.

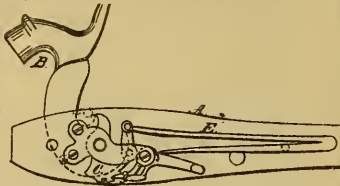
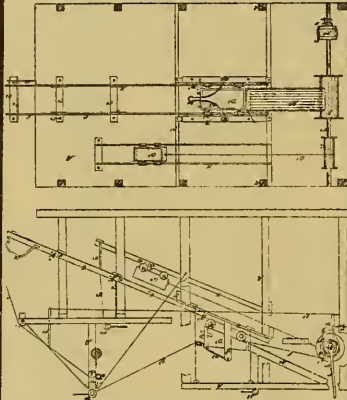
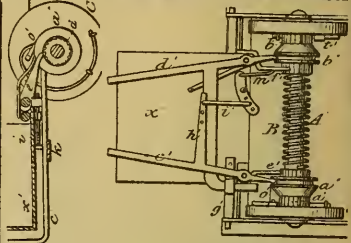
98,775. E. B. KEITH.

CAR COUPLING.

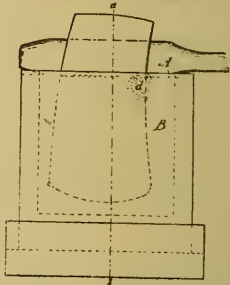


98,776. P. KELLER.
GAS REGULATOR.

98,781. N. C. LOCK. GUN LOCK.

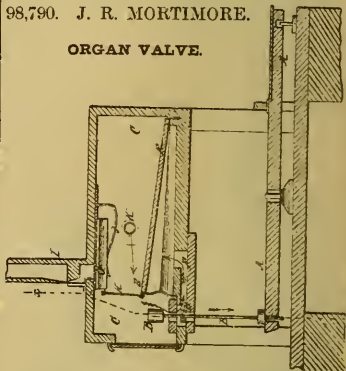
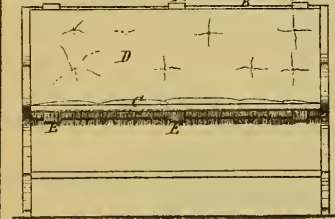
98,782. J. F. LOGAN.
COAL LOADING DEVICE.98,788. J. M. McMASTER.
CAR BRAKE AND STARTER.

98,789. H. D. MORRIS. MAKING AXES.



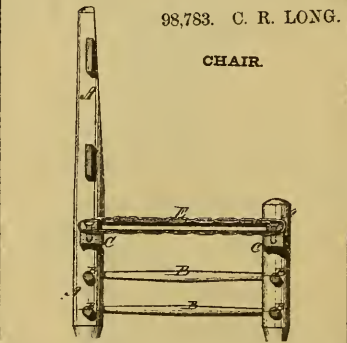
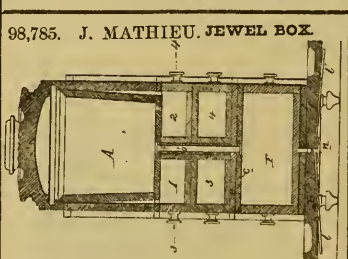
98,790. J. R. MORTIMORE.

ORGAN VALVE.

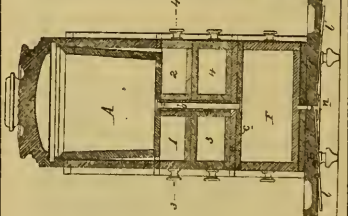
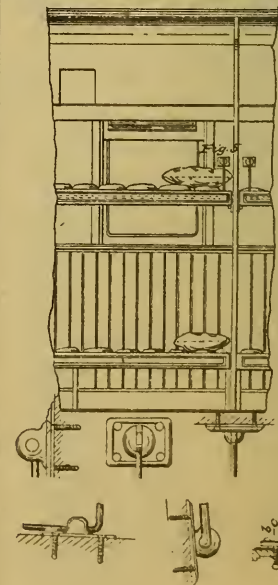
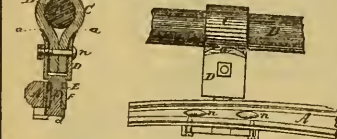
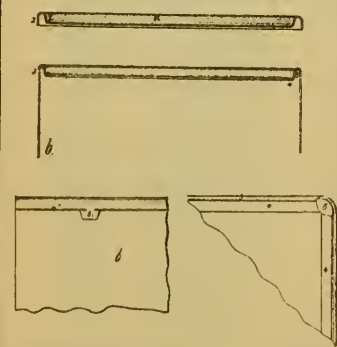
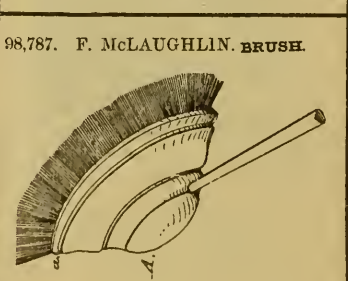
98,778. R. A. KENDALL.
SEAT CUSHION.

98,783. C. R. LONG.

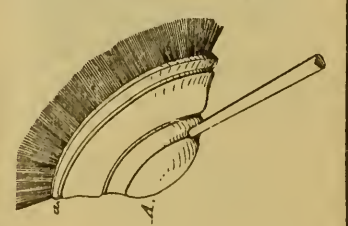
CHAIR.

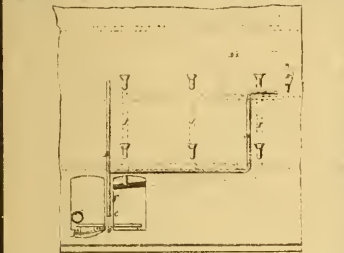
98,784. O. MARLAND.
TREATING SPIRITS.

98,785. J. MATHIEU. JEWEL BOX.

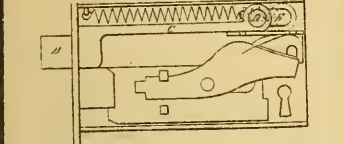
98,791. R. NORWOOD.
CONCRETE PAVING BLOCK.98,792. E. H. PAINE. SUSPENDING
UPPER BERTHS IN SLEEPING CARS.98,779. H. KILLAM.
WHIFFLETREE COUPLING.98,780. W. M. LEWIS.
SHEET METAL CAN.98,786. P. M. MCGILL.
ARTIFICIAL FUEL.

98,787. F. McLAUGHLIN. BRUSH.

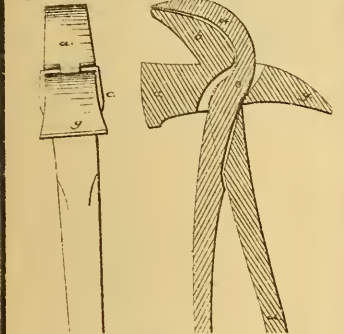
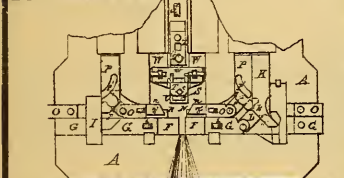


98,793. PALMER AND HOUGHTON.
SHOE UPPER.98,794. N. A. PATTERSON. COMMUNI-
CATING APPARATUS FOR HOTELS.

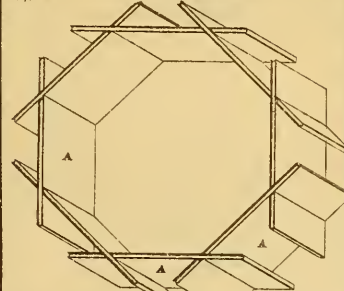
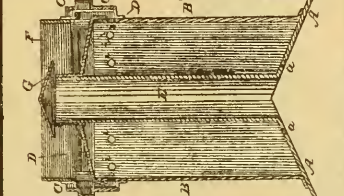
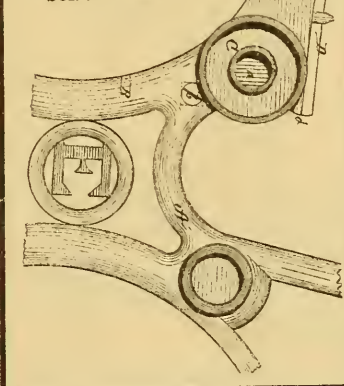
98,795. F. P. PFLEGHAR. LATCH.



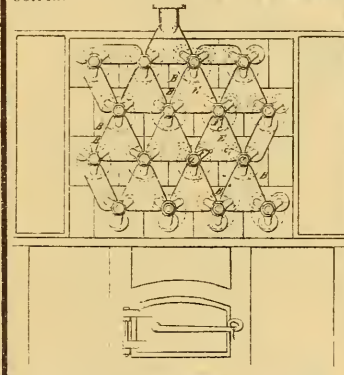
98,796. T. PILOTE. SHOEMAKER'S TOOL.

98,797. H. PLUMB.
UMBRELLA LOCK.98,798. F. B. PRINDLE.
BOLT MACHINE.

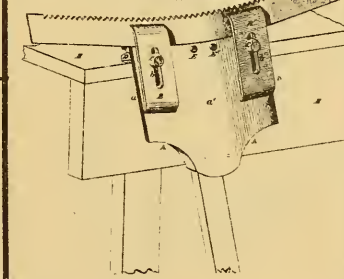
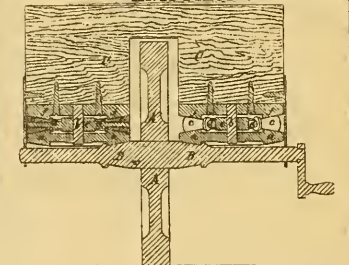
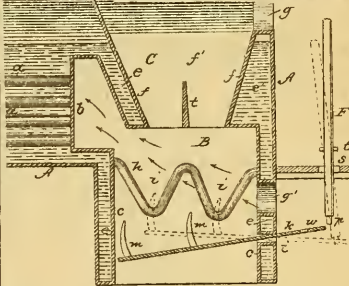
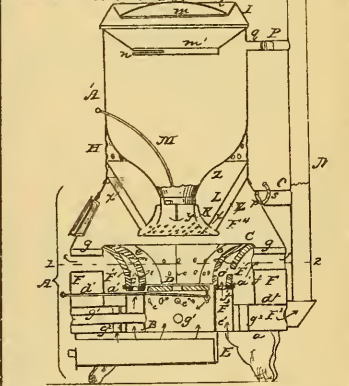
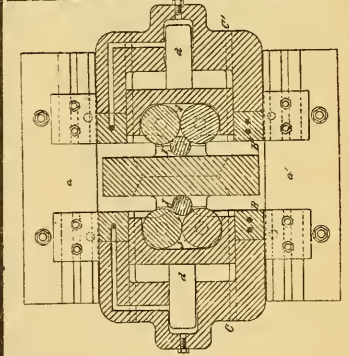
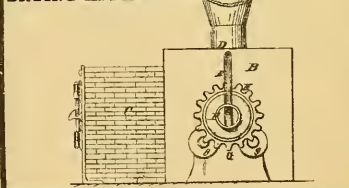
98,799. C. REUTER. CHASE.

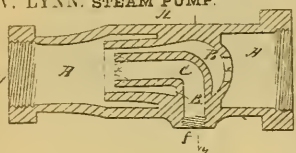
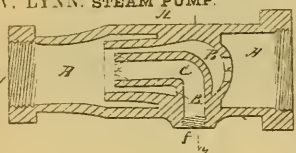
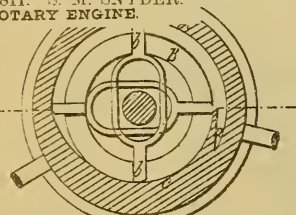
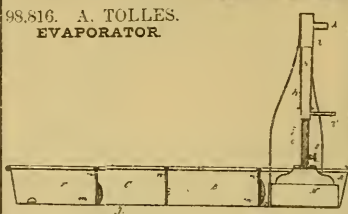
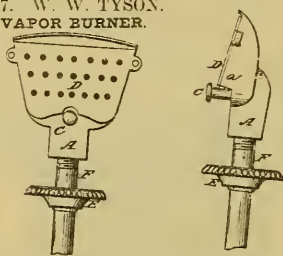
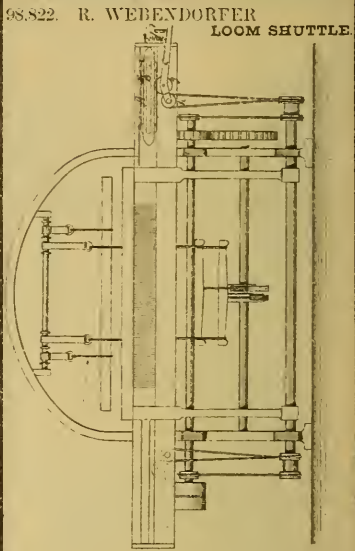
98,800. C. M. REYNOLDS.
METAL CHIMNEY.98,801. A. E. ROBERTS.
SCHOOL DESK.

98,802. J. B. ROOT. STEAM BOILER.

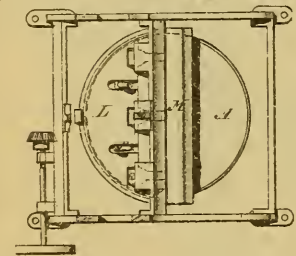


98,803. H. S. ROSS. VISE.

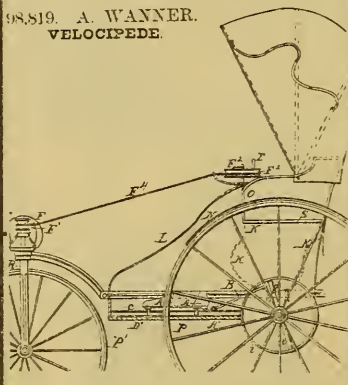
98,804. W. B. SCOTT.
ANTI FRICTION ROLLER.98,805. J. Q. C. SEARLE.
STEAM BOILER FURNACE.98,806. J. Q. C. SEARLE.
MAGAZINE STOVE.98,807. G. H. SELLERS.
APPARATUS FOR ROLLING METAL.98,808. SMITH AND HARRIS.
DRYING APPARATUS.

98,809. J. F. SMITH.
MEDICINAL PREPARATION.98,810. T. AND G. T. SNOWDEN AND
J. V. LYNN. STEAM PUMP.98,811. S. M. SNYDER.
ROTARY ENGINE.98,816. A. TOLLES.
EVAPORATOR.98,817. W. W. TYSON.
VAPOR BURNER.98,822. R. WEBENDORFER
LOOM SHUTTLE.

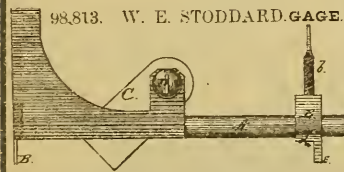
98,812. L. STEIGERT. MEAT CHOPPER.



98,818. J. D. VAN ARNUM. COMPOSITION FOR COVERING STEAM BOILERS.

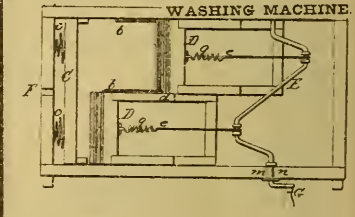
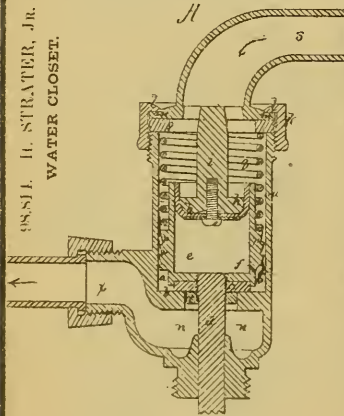
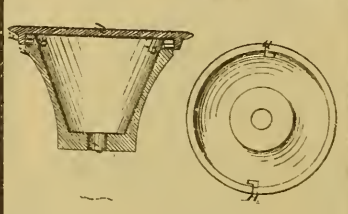
98,819. A. WANNER.
VELOCIPEDE.

98,813. W. E. STODDARD. GAGE.

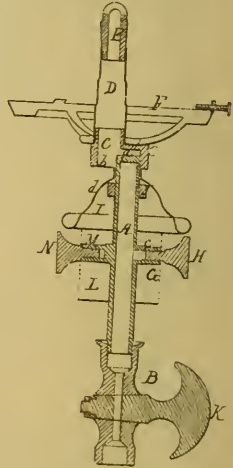
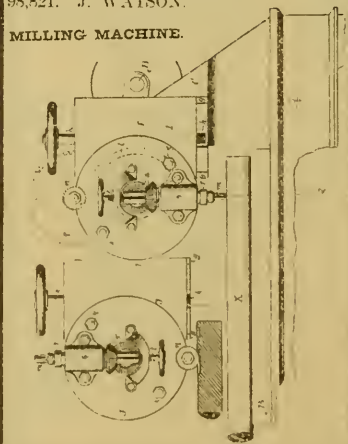
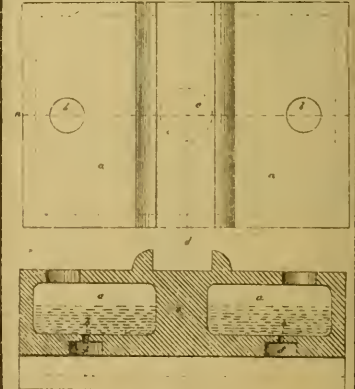
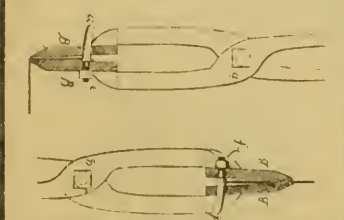


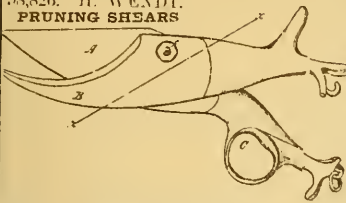
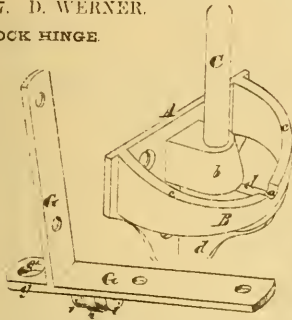
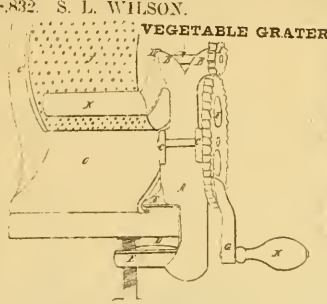
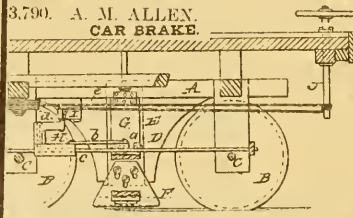
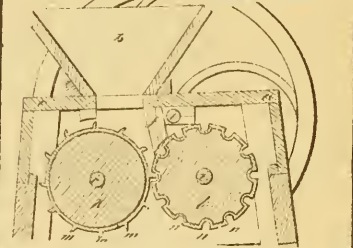
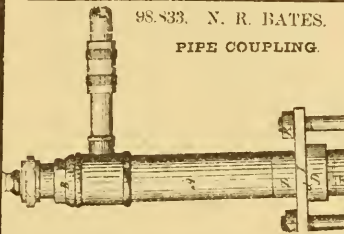
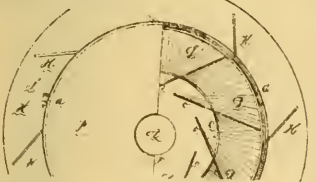
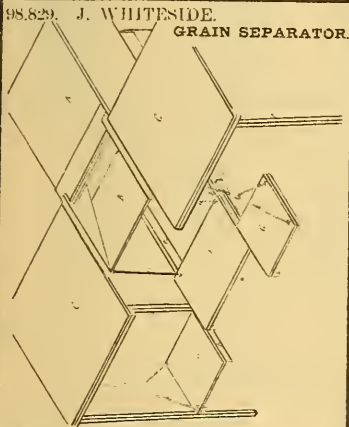
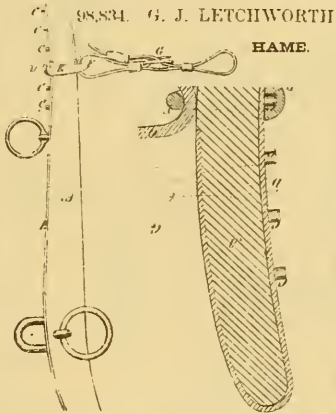
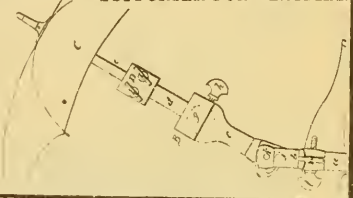
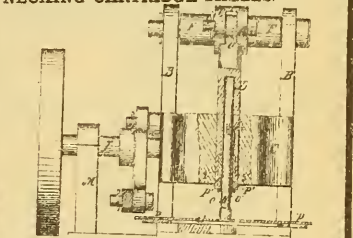
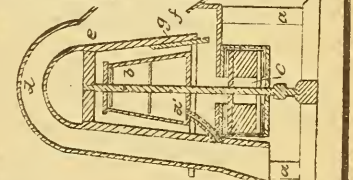
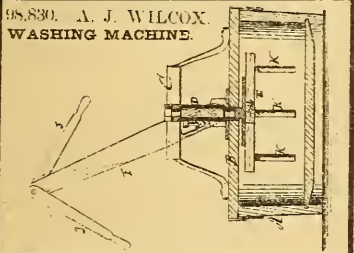
98,823. O. H. WEED.

WASHING MACHINE.

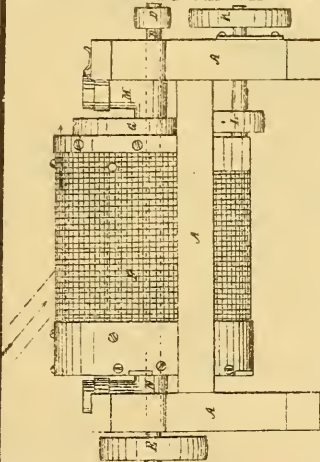
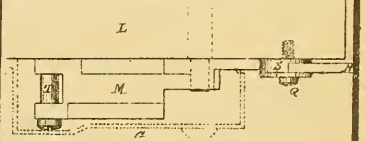
98,814. H. STRATER, JR.
WATER CLOSET.98,820. J. S. WARNER.
CRYSTAL GRINDER.

98,821. H. WELLINGTON. VAPOR BURNER.

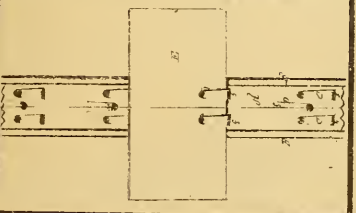
98,821. J. WATSON.
MILLING MACHINE.98,825. I. P. WENDELL.
JOURNAL BEARING.98,815. G. E. TAYLOR.
ROOFING TONGS.

98,826. H. WENDT.
PRUNING SHEARS.98,827. D. WERNER.
LOCK HINGE.98,832. S. L. WILSON.
VEGETABLE GRATER.3,790. A. M. ALLEN.
CAR BRAKE.3,791. I. S. AND A. W. HALL.
CIDER MILL.98,833. N. R. BATES.
PIPE COUPLING.98,828. W. M. WHEELER.
WATER WHEEL.98,829. J. WHITESIDE.
GRAIN SEPARATOR.98,834. G. J. LETCHWORTH.
HAME.3,792. H. S. HEREMANCE. UMBRELLA
SUPPORTER FOR VEHICLES.3,793. B. PAYNE. MACHINE FOR
NECKING CARTRIDGE SHELLS.3,794. D. SHAW. SMUT MILL AND
GRAIN SEPARATOR.98,830. A. J. WILCOX.
WASHING MACHINE.

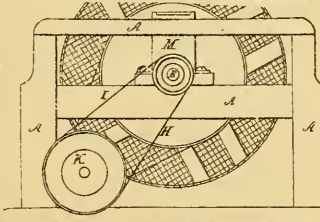
3,788. W. AGER. GRAIN CLEANER.

3,795. WILCOX AND GIBBS.
SEWING MACHINE.

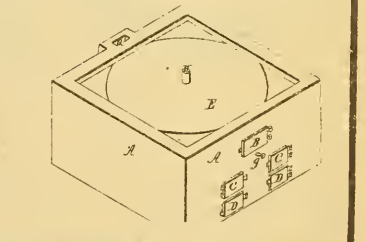
98,831. C. F. WILSON. CARD RACK.



3,789. W. AGER. GRAIN CLEANER.



3,796. J. VALE. OVEN.

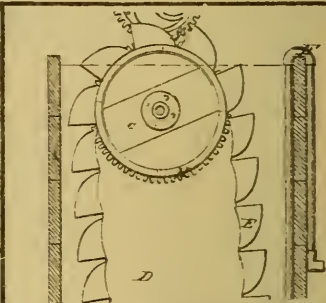
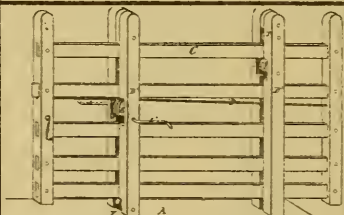
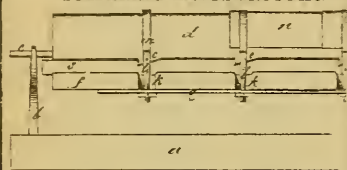


ILLUSTRATIONS OF PATENTS

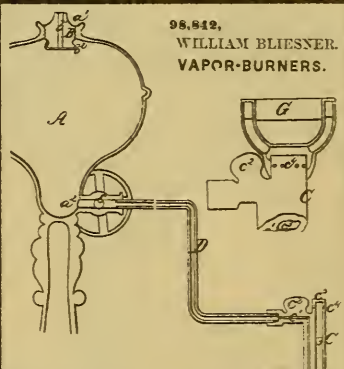
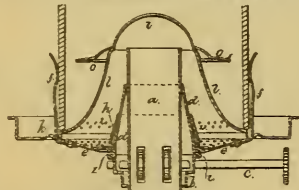
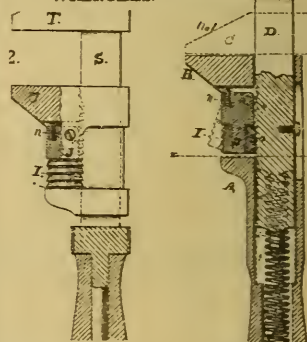
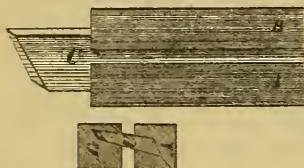
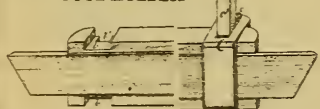
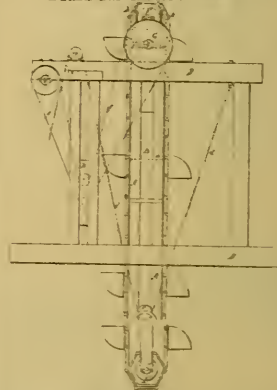
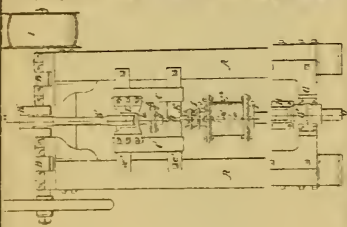
ISSUED FROM

THE UNITED STATES PATENT OFFICE

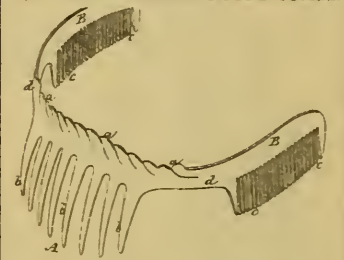
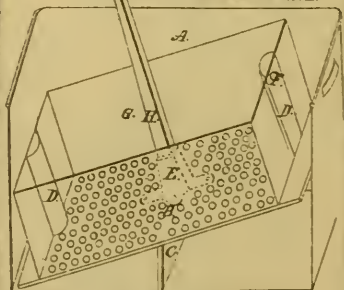
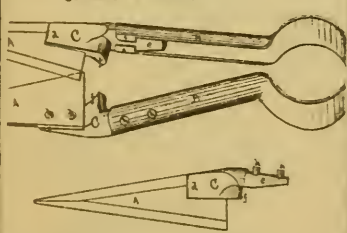
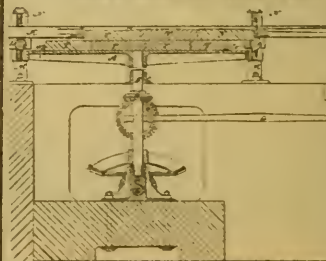
JANUARY 18, 1870.

98,835, DANIEL ASIRE. DEVICE FOR
SOLDERING EAVES-TROUGHS.

98,836, L. J. ATWOOD. LAMP-BURNERS

98,842, WILLIAM BLIESNER.
VAPOR-BURNERS.98,847, GEORGE J. CAPEWELL.
WRENCHES.98,837, JOSEPH R. BAILEY.
TOOL-HOLDER.98,843, CHAS. BROMBACHER.
COMBINED WIRE-CUTTER
AND SHEARS.98,838, JOSEPH R. BAILEY.
TOOL-HOLDER.98,848, O. CHANUTE. G. S. MORISON.
DREDGING-MACHINE.98,839, WM. BALL.
FORGING AND STAMPING-MACHINE

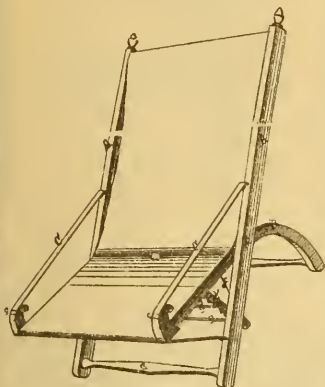
98,844, ELIAS BROWN. ROUND COMBS.

98,845, MILTON V. BULLA.
J. BENJ. BIRDELL.
WASHING-MACHINE.98,840, WM. B. BARNARD.
SHEEP-SHEARS.98,849, EDW. H. CLOWSER.
FOOD FOR HORSES AND CATTLE.98,850, JAMES COULTER.
HERBERT HARFIN.
STONE-DRESSING MACHINES.

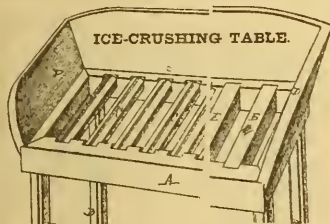
98,841, ISAAC C. BENNETT. GATES.

98,846, HORACE CALL.
APPARATUS FOR TRANSMITTING
POWER BY THE MEDIUM OF AIR.

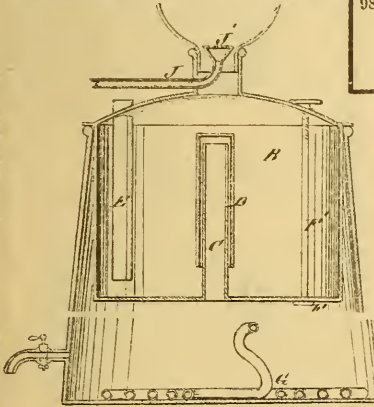
98,851, C. H. D'ARCES.
ADJUSTABLE RECLINING-CHAIR.



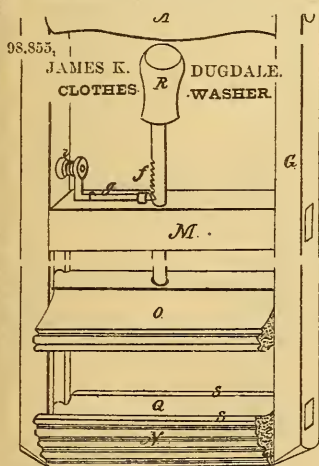
98,852, D. W. DAVIS. S. H. DAVIS.



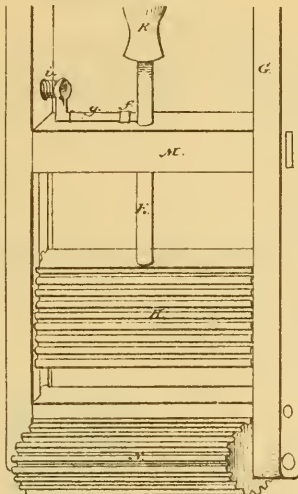
98,853, HENRY G. DAYTON. STILLS
FOR WHISKEY AND OTHER SPIRITS.



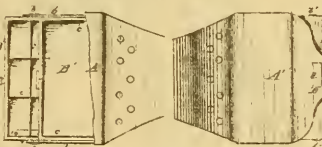
98,854, C. DITTMAN.
EXPLOSIVE COMPOUND.



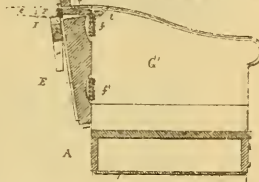
98,856, JAMES K. DUGDALE.
CLOTHES-WASHER.



98,857, GEORGE W. ELLIOTT.
SADDLE-BAGS.



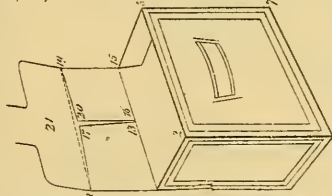
98,858, WILLIAM FARSON.
SOFA-BEDSTEAD.



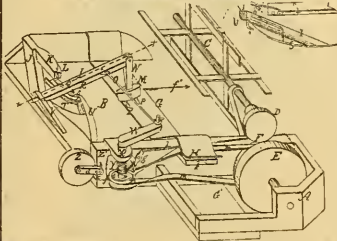
98,859, EDWARD G. FAST.
TRAVELLING SLEEPING-CUSHION.



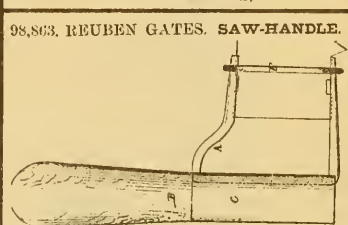
98,860, F. FIELD. PAPER BOX



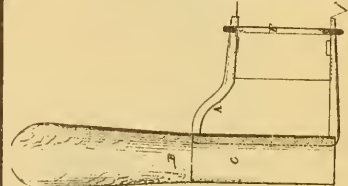
98,861, JEROME FRENCH.
HARVESTER-RAKES.



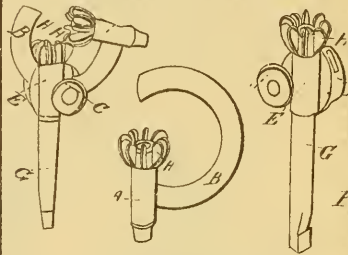
98,862, P. M. CRANE. COMPOSITION FOR
EDWD. V. GARDNER, COATING SHIPS,
BOATS.



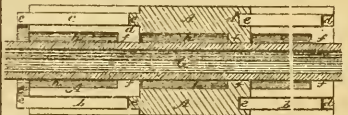
98,863, REUBEN GATES. SAW-HANDLE.



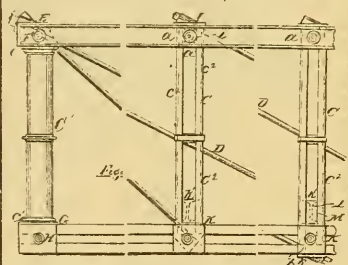
98,864, G. F. GREEN.
UNIVERSAL-GEARED JOINTS



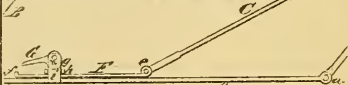
98,865, WASHINGTON HARRIS.
NON-CONDUCTING COVERING
FOR BOILERS, STEAM-PIPES.



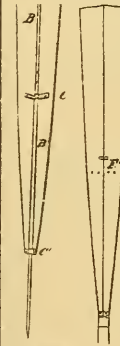
98,866, GEO. P. HERTHEL, BRIDGES.



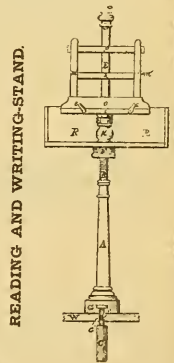
98,867, JAMES G. HOLMES.
STOP FOR THE HINGED FRAM
OF RECLINING-CHAIRS.



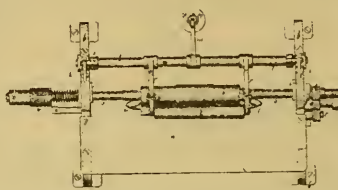
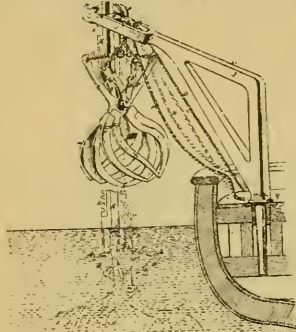
98,868, OAR
WILLIAM J.
HOUGH.



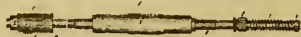
98,869, GEORGE HOWELL.



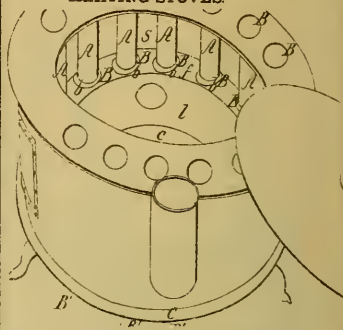
98,870, ROBERT HUNTER.
WRECKING-TONGS OR EXCAVATORS.



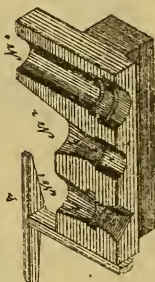
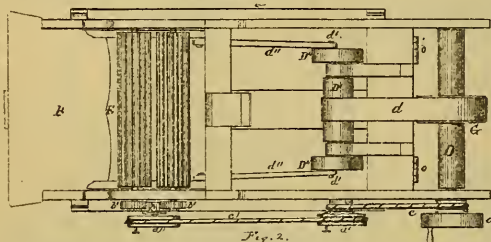
98,878, JOSEPH NICOL.
SERIES OF DIES FOR FORMING AXLES



98,882, WILLIAM M. PHELPS.
SAMUEL J. BURPEE.
HEATING-STOVES.



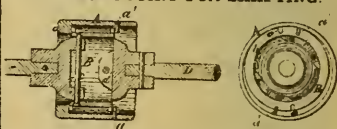
98,871, FREDERICK S. JENNINGS.
FELTING-MACHINES.



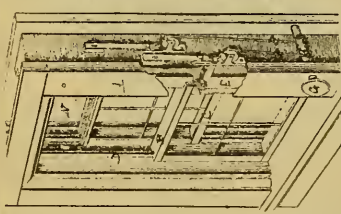
98,883, JOS. PHILIPPS.
MODE OF PRODUCING LIGHT BY THE
COMBINATION OF SOLID AND LIQUID
HYDROCARBONS.

98,884, FRANCIS PEYRE PORCHER.
MATERIALS FOR TANNING, DYEING,
AND FOR OTHER PURPOSES.

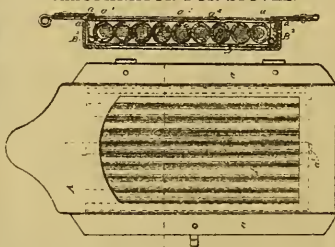
98,885, CYRUS ROBERTS.
UNIVERSAL JOINT FOR SHAFTING.



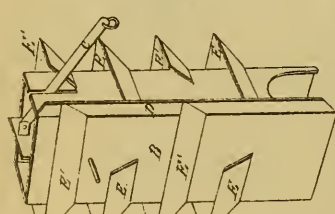
98,872, JAMES P. LABAR.
SASH-STOP, AND HOLDER.



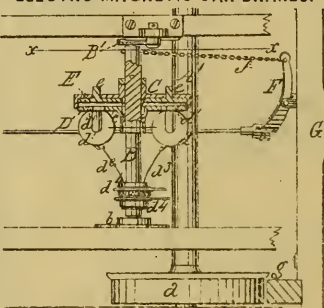
98,879, BENJAMIN NOTT.
ILLUMINATOR FOR STOVES.



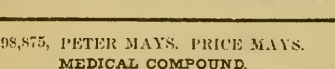
98,873, GEO. W. LORE.
STOVE-PIPE DRUM.



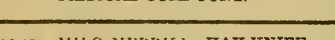
98,880, JOSEPH OLMSTED.
ELECTRO-MAGNETIC CAR-BRAKES.



98,874, SIMON L. MADGE. METALLIC
ALLOY FOR PLOW-MOULD-BOARDS.



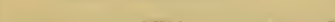
98,875, PETER MAYS. PRICE MAYS.
MEDICAL COMPOUND.



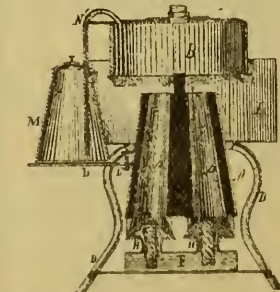
98,876, MILO MERRILL. HAY-KNIFE



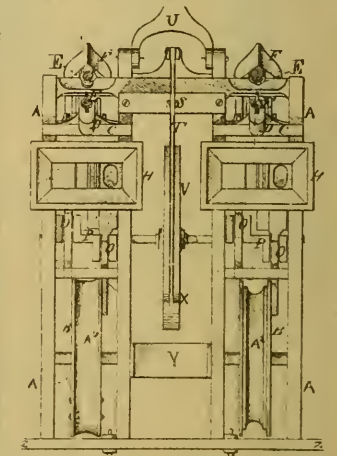
98,877, FR. MEYER.
HENRY SCHILD.
CIGAR-MACHINES.



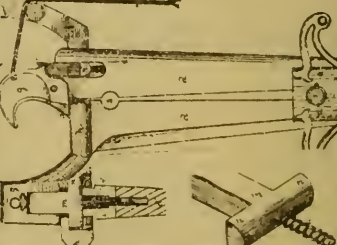
98,881, CLINTON I. PAINE.
STEAM-CULINARY APPARATUS.



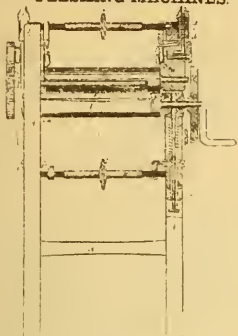
98,886, HENRY K. ROBERTS.
GEO. E. ROBERTS.
CORN-PLANTER AND FERTILIZER.



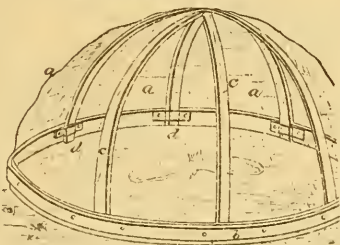
98,887, LUMAN ROGERS.
HORSE HAY-FORKS.



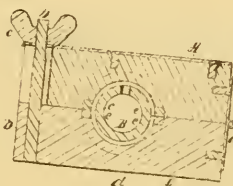
98,888, J. A. SAFFORD.
LEATHER-SPLITTING AND
FLESHING MACHINES.



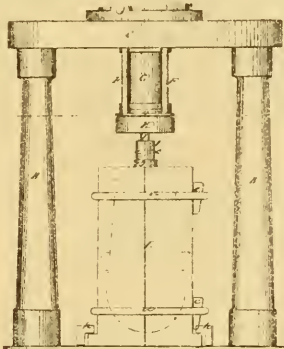
98,892, WATSON N. SPRAGUE
PLANT-PROTECTORS.



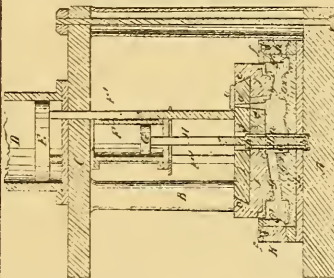
98,893, RICHARD STREET.
CLOSING LEAKS IN HOSE, PIPES,
AND TUBES.



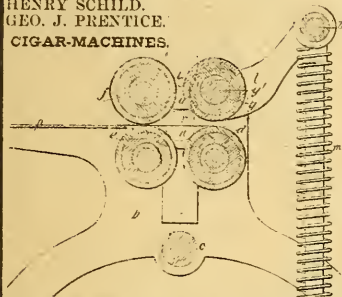
98,894, JOHN BLAKE TARR.
CASTING CANNON.



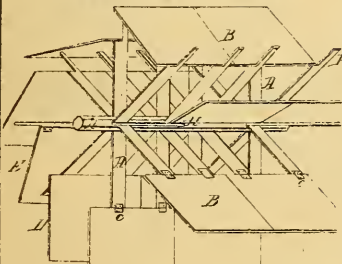
98,895, JOHN BLAKE TARR.
LOCOMOTIVE CAR-WHEELS.



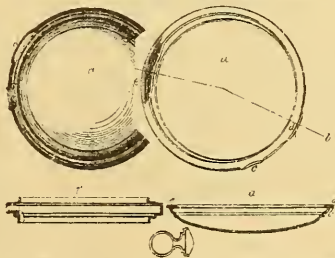
98,890,
HENRY SCHILD.
GEO. J. PRENTICE.
CIGAR-MACHINES.



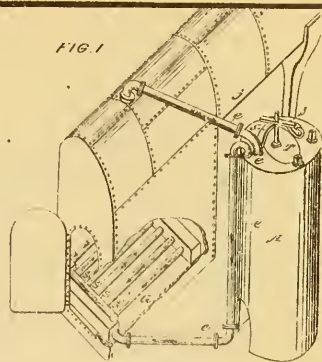
98,891, ARTAXERNES W. SORY.
CURRENT WATER-WHEELS.



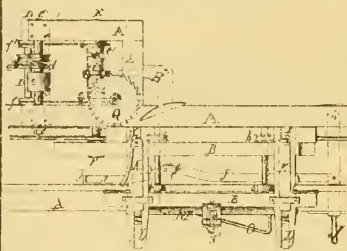
98,896, C. L. THIERY. WATCH-CASES.



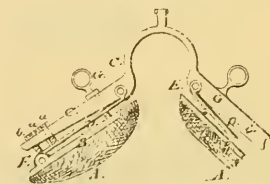
98,897, LEONARD THORN.
STEAM-DIGESTER FOR
RENDERING LARD.



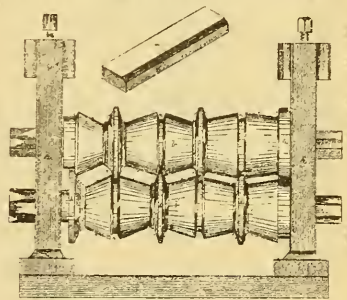
98,898, WILLIAM TUXWORTH.
MACHINERY FOR SAWING LATH



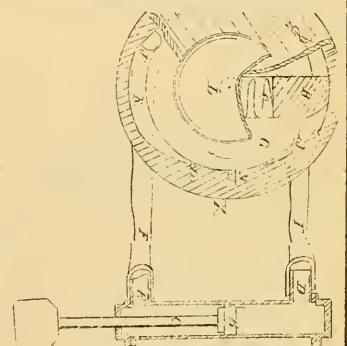
98,899, J. L. VAN WERT.
HARNESS-SADDLES.

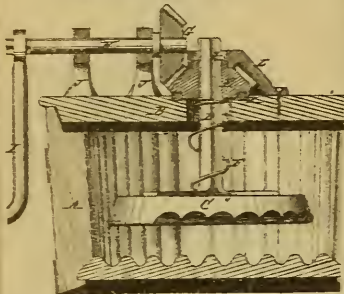


98,900, JOHN I. WILLIAMS.
APPARATUS FOR ROLLING METAL.

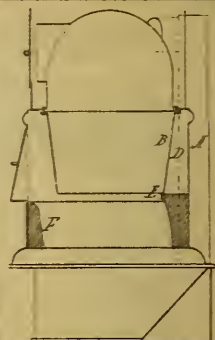
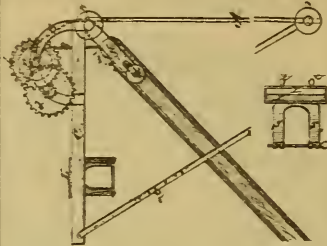


98,901, DE VOLSON WOOD. PNEUMATIC
RECIPROCATING MOVEMENT.



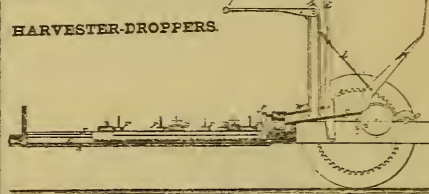
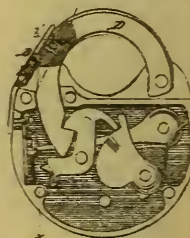
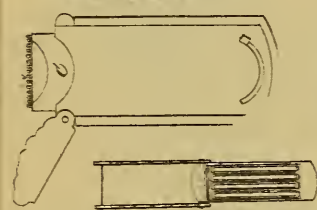
98,902. SQUIRE AINSWORTH.
WASHING-MACHINE.

98,903. GEO. W. BAKER. SCAFFOLD.

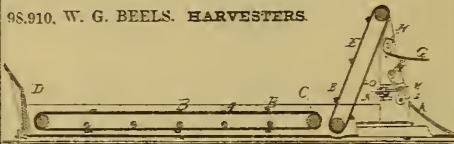
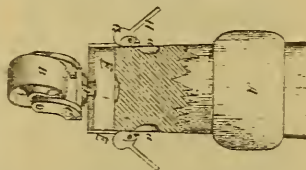
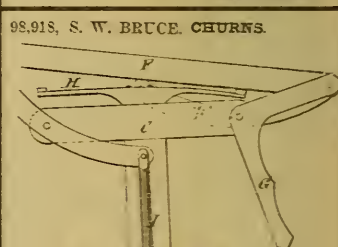
98,903. JOHN H. ATWATER.
DRAWING-KNIFE.

98,900. W. G. BEELS.

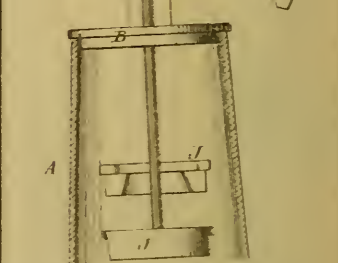
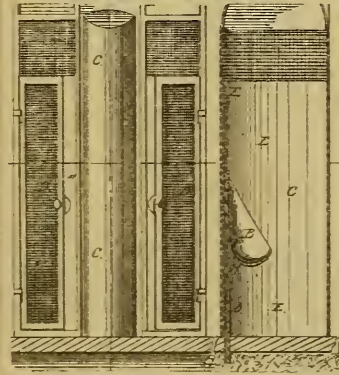
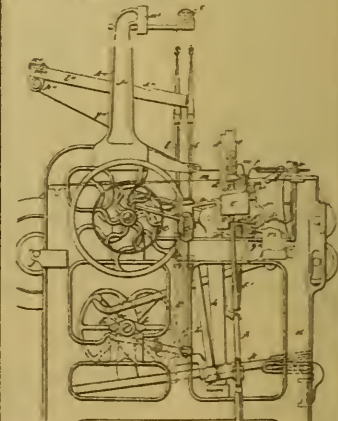
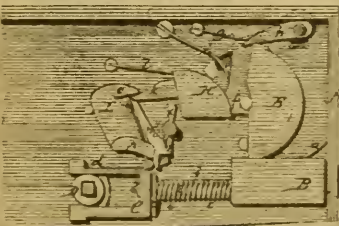
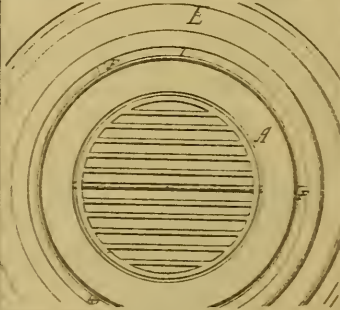
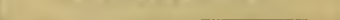
HARVESTER-DROPPERS.

98,916.
W. E. BRITTINGHAM.
TANNING AND
STUFFING LEATHER.98,904. WILLIAM AVERY.
ALBERT FENTON.
NEEDLE-CASES.

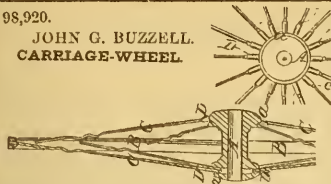
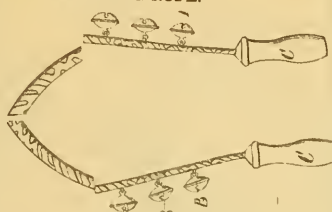
98,910. W. G. BEELS. HARVESTERS.

98,911. R. O. BENTON.
PLASTIC ROOFING-COMPOUNDS98,912. LEOPOLD BERTSCHE
CASTER FOR FURNITURE98,917. FRANKLIN W. BROOKS.
SEAL-LOCKS

98,918. S. W. BRUCE. CHURNS.

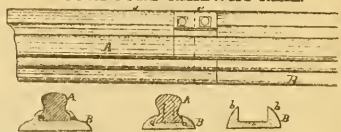
98,905. MORITZ BACHARACH.
STREET-URINALS.98,913. HUGH BOYLE.
TURBINE WATER-WHEELS.98,906. A. H. BAILY.
WILL G. BRATTON.
LEATHER-CHANNELLING AND
FOLDING TOOL.98,919.
POWER-LOOMS.98,907. W. N. BAILEY.
COMBINED LATCH AND LOCK98,914. N. A. BOYNTON.
FENDER FOR HEATING-STOVES.98,915. N. A. BOYNTON.
BASE BURNING STOVE.

98,920.

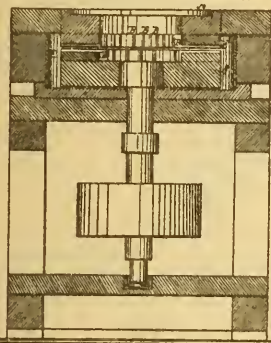
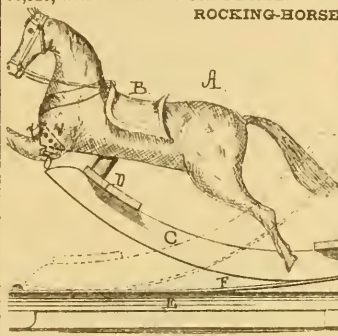
JOHN G. BUZZELL.
CARRIAGE-WHEEL.98,928, S. PARK COON.
SKIPPING-ROPE.

98,935, WM. B. DUNNING.

COMPOUND RAILWAY-RAIL.

98,921, W. P. CALLAHAN
D. R. DE RUSH.

COTTON-SEED HULLERS.

98,929, BENJAMIN P. CRANDALL.
ROCKING-HORSE.

98,936, R. N. EAGLE.

LAMP-CHIMNEYS.

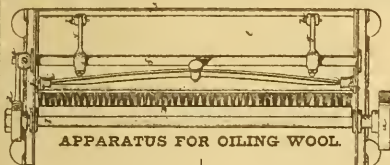


98,937, R. N. EAGLE.

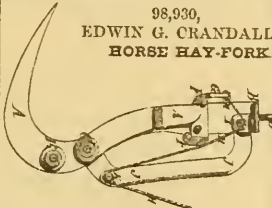
LAMP-CHIMNEYS.



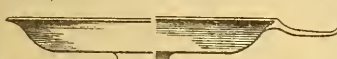
98,922, THOMAS A. CAMPBELL.



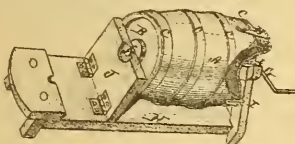
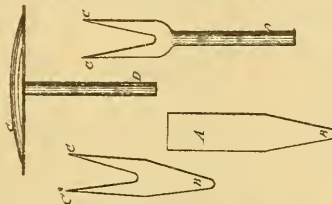
APPARATUS FOR OILING WOOL.

98,930,
EDWIN G. CRANDALL.
HORSE HAY-FORK.

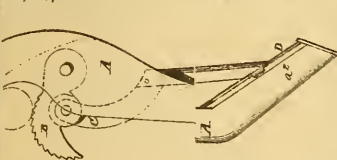
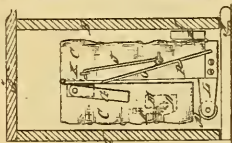
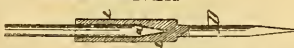
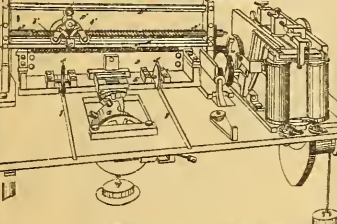
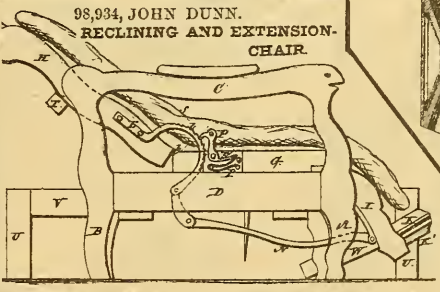
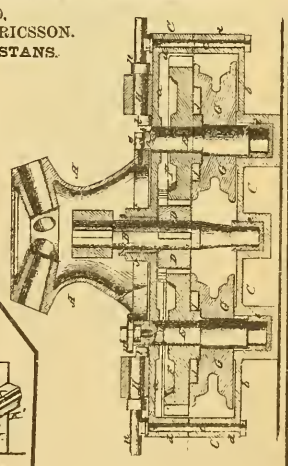
98,923, JOHN CARLIN. PLATE-HOLDER.

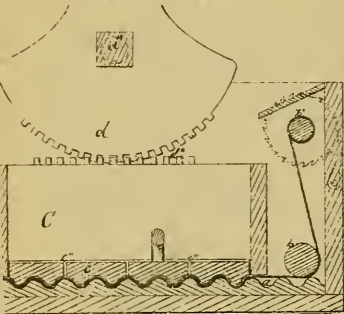
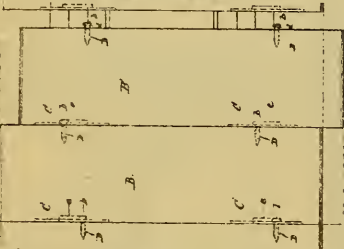
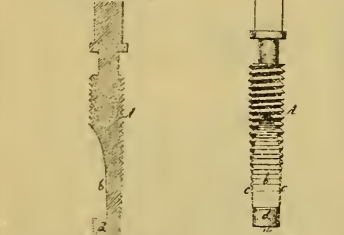
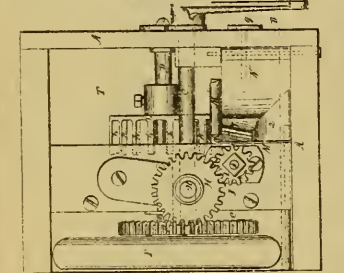


98,924, JOHN CHAPPLE. CHURNS.

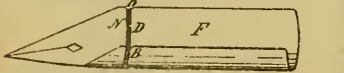
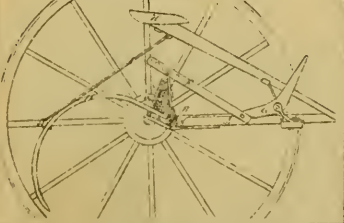
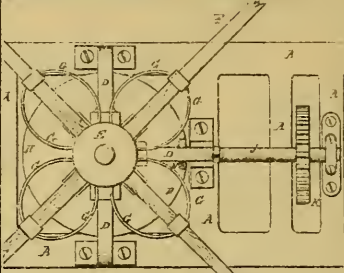
98,931, JOHN DEEBLE.
METHOD OF FORMING T-BOLTS.

98,925, JOHN CLARK. PIPE-TONGS.

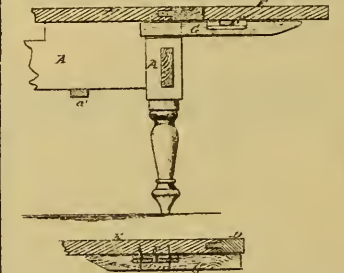
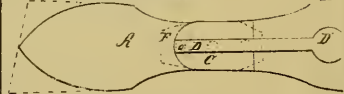
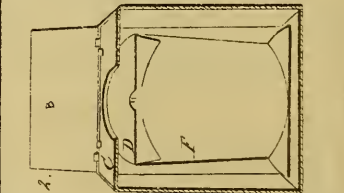
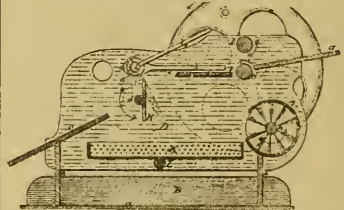
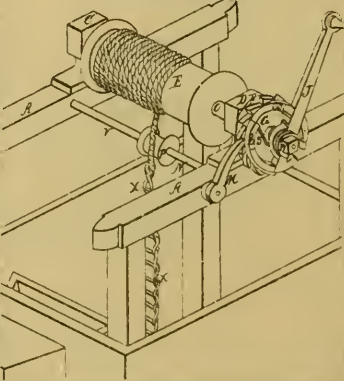
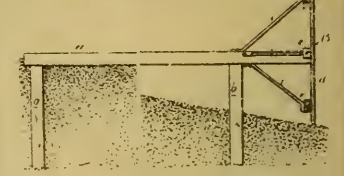
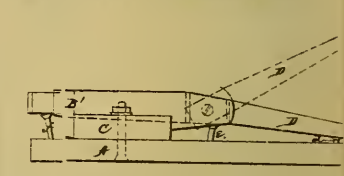
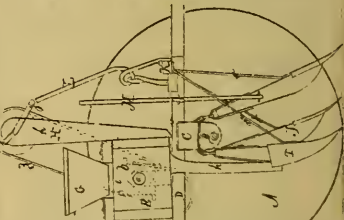
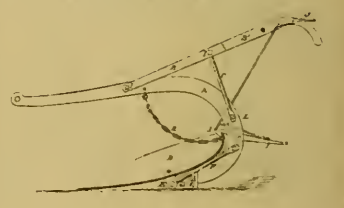
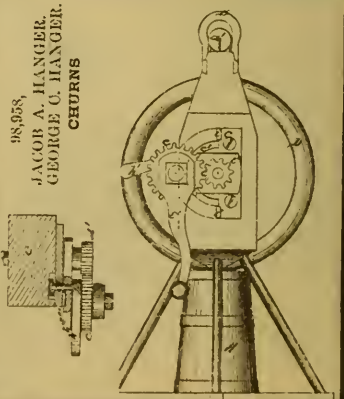
98,932, LOUIS DEROME.
ENCLOSED FOLDING SPRING-BED.98,926, EDWARD COOGAN.
CHAIR-TIP.98,933, DAVID DRUMMOND.
SCREW-DRIVER.98,927, HENRY COOK.
TELEGRAPHIC APPARATUS.98,934, JOHN DUNN.
RECLINING AND EXTENSION-
CHAIR.98,940,
J. ERICSSON.
CAPSTANS.

98,941. THOMAS R. EVANS.
WASHING-MACHINE.98,942. WILLIAM FARSON.
EXTENSION-TABLE.98,943. CHRISTIAN L. FEHRENSSEN.
SCREW-TAP.98,944. SAMUEL FIELD.
CORN-SHELLERS.

98,945. D. D. FOLEY. PENS.

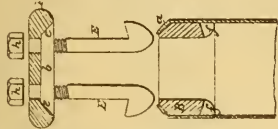
98,946. EMANUEL FORNEY.
JONAS SWAR.
HORSE HAY-FORKS.98,947. JAS. FRASER. HORSE-POWER.
WILLIAM THOMAS.

98,948. LAMBERT FREEMAN. TABLE

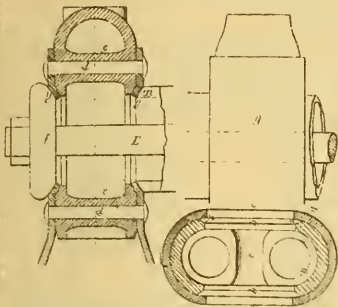
98,949. SELA W. GERELDS.
PUTTY-KNIFE.98,950. JOSEPH GILBERT.
PORTABLE WATER-CLOSETS.98,951. E. A. GOODES.
THRESHING-MACHINES.98,952. MATTHEW D. GRAY.
WATER-ELEVATORS.98,953. LOUIS GUTEKUNT.
BREAKWATERS98,954. GEORGE H. HACKETT.
DRAG-RAKE.98,955. WILLIAM P. HALE.
MACHINE FOR FINISHING SPOKES.98,956. J. A. HALL.
COMBINED SEEDER AND CULTIVATOR.98,957. ROBERT HAMILTON.
ROAD-SCRAPERS.98,958.
JACOB A. HANGER.
GEORGE C. HANGER.
CHURNS

98,959, MRS. MARY J. HANSON.
MEDICAL COMPOUND.

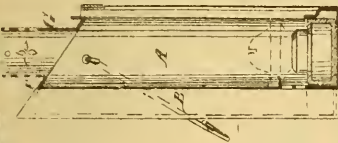
98,960, W. H. HARRISON.
JOINTS FOR METAL PIPES.



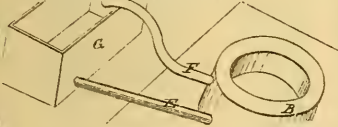
98,961, W. H. HARRISON.
CONNECTIONS FOR PIPES OF
MALLEABLE METAL.



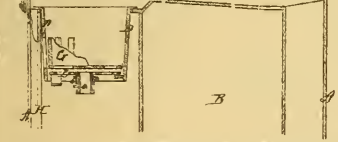
98,962, E. F. HASKELL. LANTERNS.



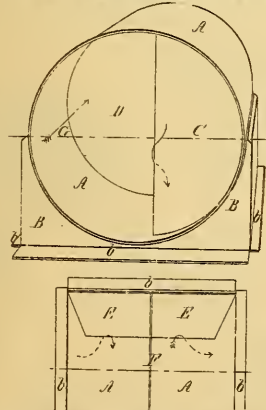
98,963, JOHN HENDERSON.
GLASS-FURNACES.



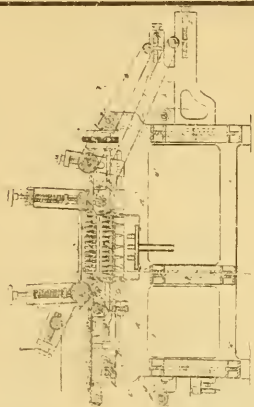
98,964, CHARLES W. HERMANC.
COOKING-STOVE.



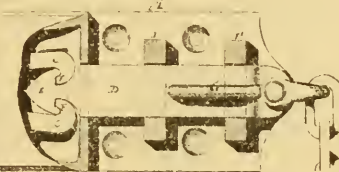
98,965, M. T. HITCHCOCK.
RAILROAD-CAR VENTILATOR.



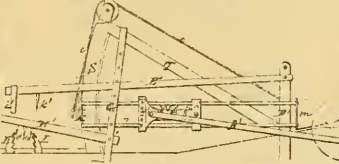
98,966, EDWARD HOLDEN.
APPARATUS FOR COMBING
AND PREPARING WOOL.



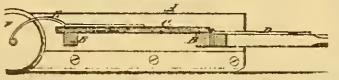
98,967, JAMES L. HOWARD.
CAR-DOOR LOCKS.



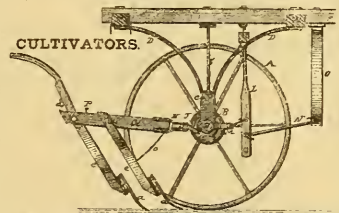
98,968, S. CHARLES HOWE.
SAWING-MACHINES.



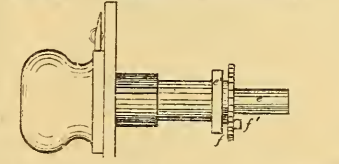
98,969, JAMES HOWLAND.
ROAD-SCRAPER.



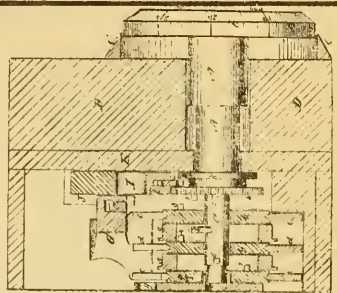
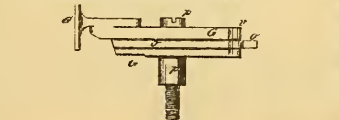
98,970, BENJAMIN S. HYER'S.



98,971, HENRY ISHAM.
KNOBS FOR PERMUTATION-LOCKS.



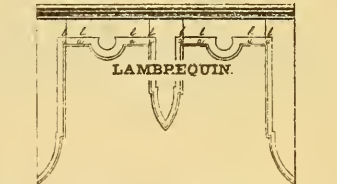
98,972, FRANCES E. ISHAM.
PERMUTATION-LOCKS.



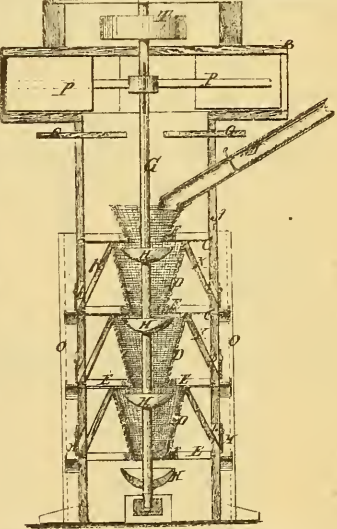
98,973, WM. H. JOECKEL. CHAIR.



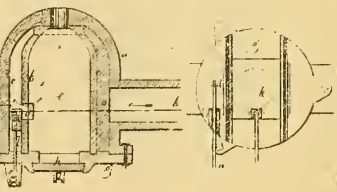
98,974, HENRY M. JOHNSTON.



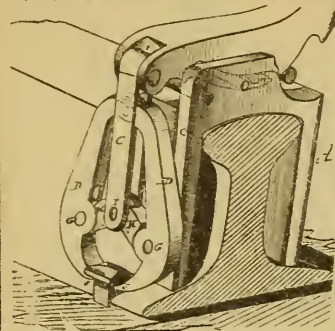
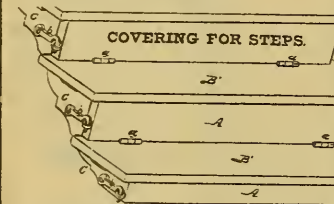
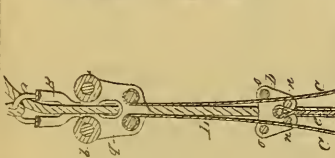
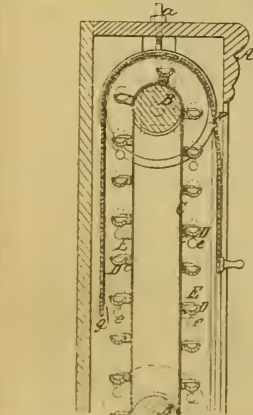
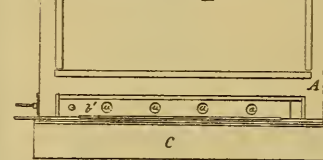
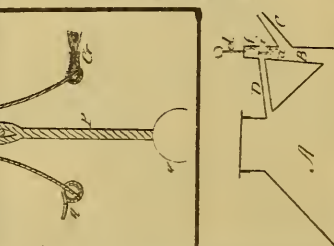
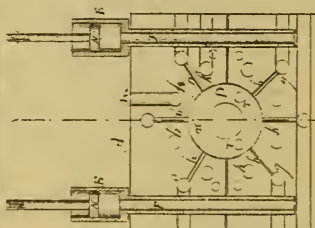
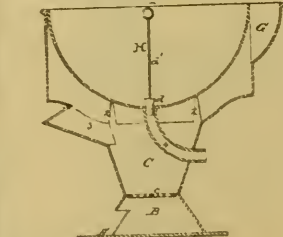
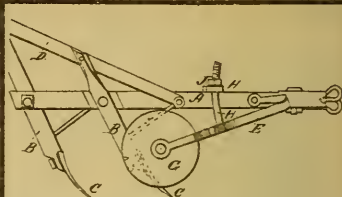
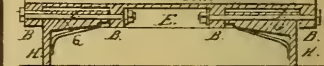
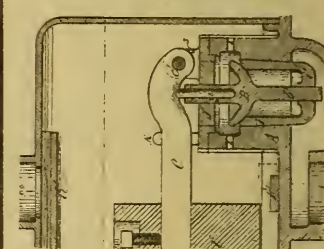
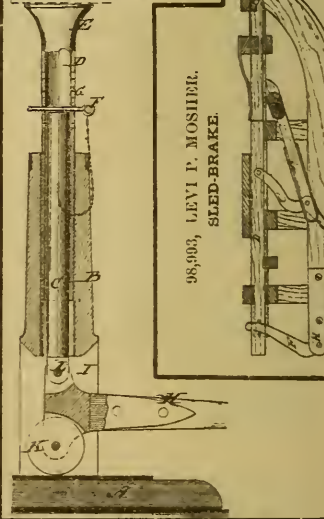
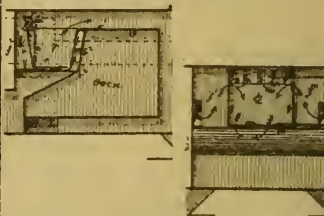
98,975, CHARLES JONES.
GRAIN-CLEANERS.

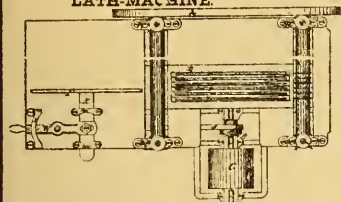
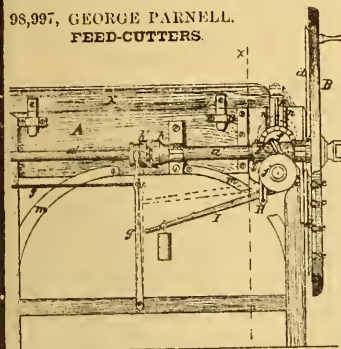
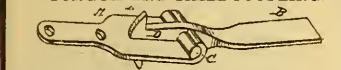
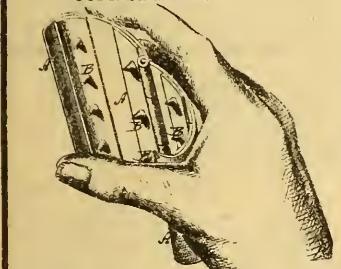
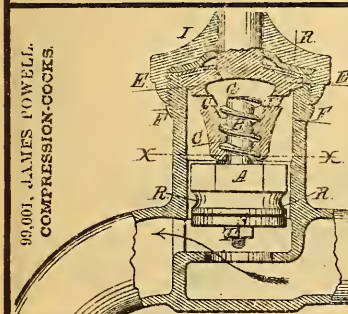
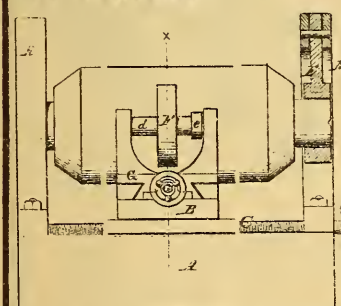
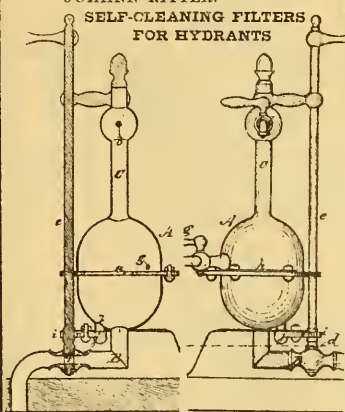
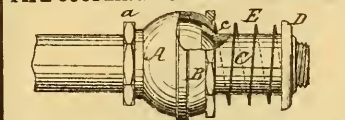


98,976, JAMES O. JONES. TUYERE.

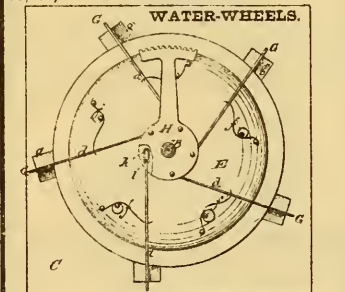
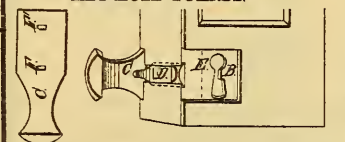
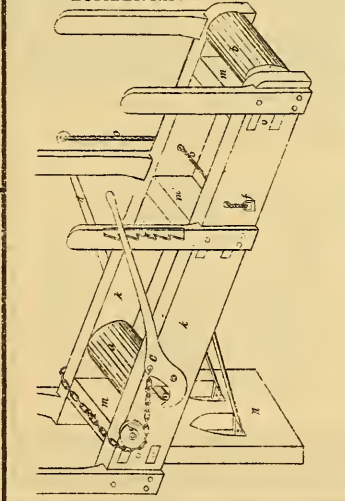
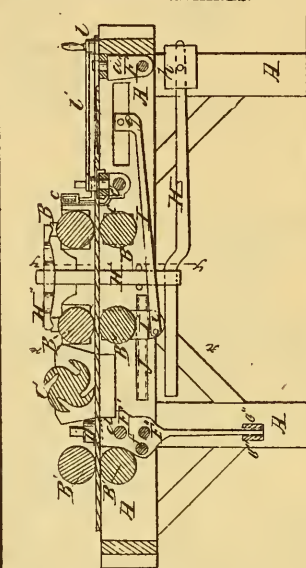
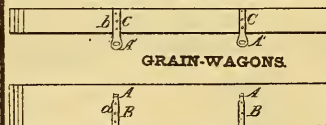
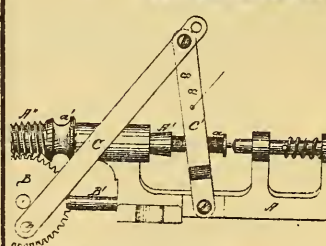


98,977, WM. KEGG. SPIKE-EXTRACTOR.

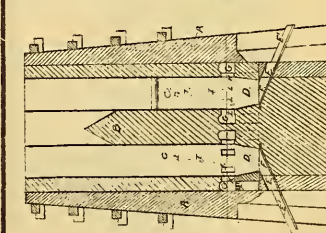
98,978, CHARLES E. KEMP.
JOSEPH N. PATTISON.98,979, JOHN J. KIMBALL.
FLOOD-GATE.98,980, GEO. S. KNAPP.
CHIMNEY-CLEANER.98,981, G. S. KNAPP.
RAILROAD-CAR WINDOW.98,982, GEO. D. LEONARD.
SHOW-CASE FOR SILKS, COTTONS.98,983, N. H. LINDLEY.
HORSE-HOE.98,984, MICHAEL LITTLE.
FLY-TRAPS.98,985, JAMES M. LYON.
BRAIDING-ATTACHMENT
FOR SEWING-MACHINES.98,986, J. J. MARCY.
OIL-CAN VENT-SPOUTS.98,987, JEREMIAH McILVAIN.
JOURNAL-BOXES.98,988 ALLEN N. MERRILL.
FARMERS' BOILER.98,989, DAN. O. MOORE.
FRANK REID.
CLOD-FENDERS.98,990, J. W. MOORE.
RUNNER-ATTACHMENT
FOR CARRIAGES.98,991, WILLIAM MOSES.
LOCK-UP SAFETY-VALVE.98,992, C. W. MOSHER.
LIFTING-JACKS.98,993, LEVI P. MOSHER.
SLED-BRAKE.98,994, MARTIN J. MOSHER.
COOKING-STOVE98,995, SEWELL NEWHOUSE.
METALLIC CARTRIDGES.

98,996, WALTER B. NOYES.
LATH-MACHINE.98,997, GEORGE PARNELL.
FEED-CUTTERS.98,998, JAMES I. PECK.
TONGUE AND THILL-COUPLING.98,999, RUPERT PFEIFER.
CORN-SHELLERS.99,000, J. M. POOLE.
GRINDING MACHINE.99,001, JAMES POWELL.
COMPRESSION-COCKS.99,002, JOHN RAIBLE.
MATTHIAS KEIS.
JOHANN RITTER.99,003, HENRY R. ROBBINS.
PIPE-COUPLING FOR HEATING CARS.

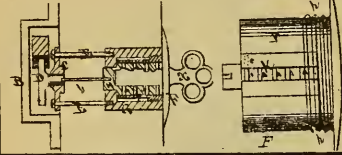
99,004, JOHN ROGERS.

99,005, JOHN L. RUSSELL.
KEY-HOLE GUARDS.99,006, CHARLES SACH.
LUMBER-RACK.99,007, ELLIOT SAVAGE.
ALLOYS OF MANGANESE.99,008, JOHN B. SCHENCK.
PLANING-MACHINES.99,009, MINOT S. SCOFIELD.
HAND-BARROWS.99,010, GEO. SEITZINGER.
FASTENING SIDE-BOARDS TO
GRAIN-WAGONS.99,011, THOMAS SHANKS.
BOBBIN-WINDERS FOR
SEWING-MACHINES.

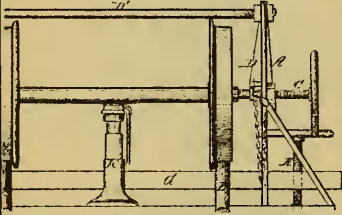
99,012, F. SHELLEY. LIME-KILNS.



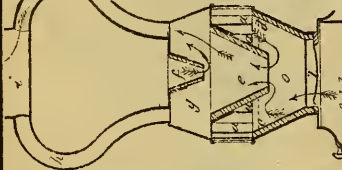
99,013, H. S. SHEPARDSON. LOCK.



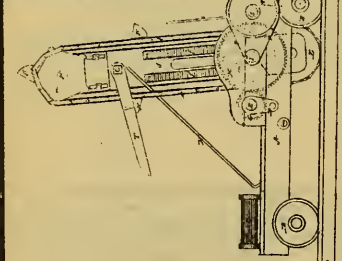
99,014, B. S. SKATES. APPARATUS FOR STRAIGHTENING CAR-AXLES.



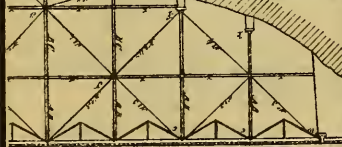
99,015, ELI SLATER. HOT-AIR FURNACE.



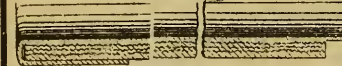
99,016, FRANCIS W. SLATER. SEWER-EXCAVATOR.



99,017, SMITH, LATROBE AND SMITH. METHOD OF CROSSING RAVINES AND VALLEYS.



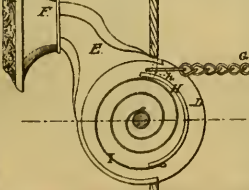
99,018, GEORGE C. SMITH. RUBBER HOSE.



99,019, JAMES T. SMITH. NUMBER-PLATES FOR DOORS.



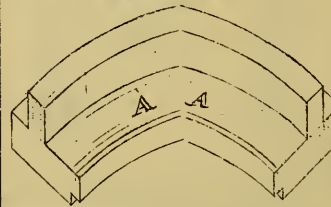
99,020, JOHN JOSEPH CHAS. SMITH. BELL-PULLS.



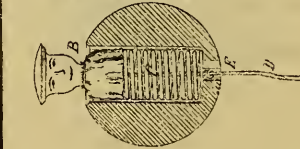
99,021, T. RICE SMITH. JAMES MITCHELL. CLOTHES-SPRINKLER.



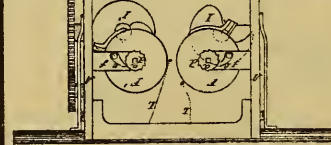
99,022, JOHN SPERRY. PICTURE-FRAMES.



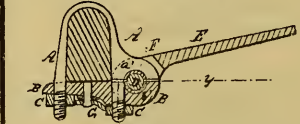
99,023, HENRY SPLITDORF. SPRING TOY-BALL.



99,024, JEREMIAH STEVER. SHUTTLE-DRIVING MECHANISM FOR LOOMS.



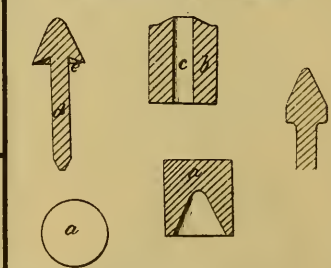
99,025, CLEMENT ST. JAMES. THILL-COUPPLINGS.



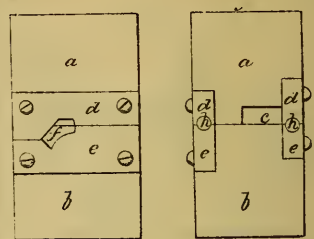
99,026, I. H. STODDARD. PHOTOGRAPHIC CAMERAS.



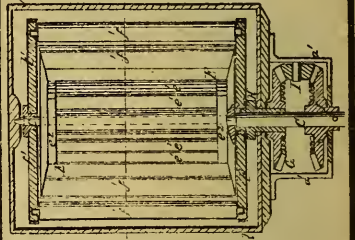
99,027, ALSON A. STONE. DIE FOR FORMING SHUTTLE-TIPS.



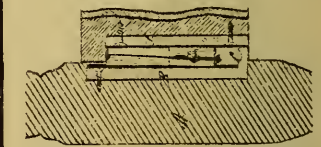
99,028, ALSON A. STONE. DIE FOR FORMING SHUTTLE-SPINDLE HEADS.



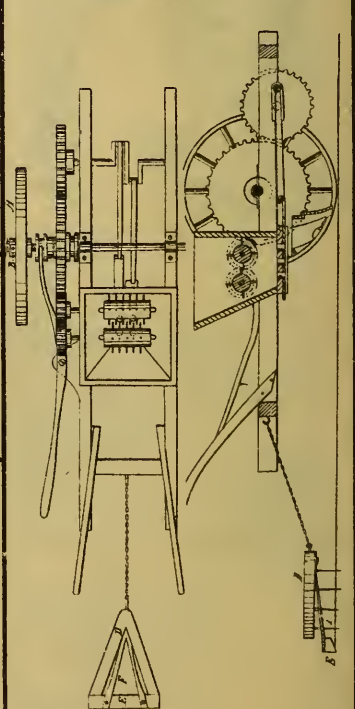
99,029, GEO. W. STRANAHAN. WASHING-MACHINE.



99,030, HENRY SWINEFORD. BEDSTEAD-FASTENER.



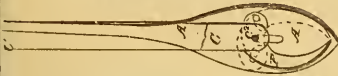
99,031, E. L. SYKES. COTTON-PLANTER.



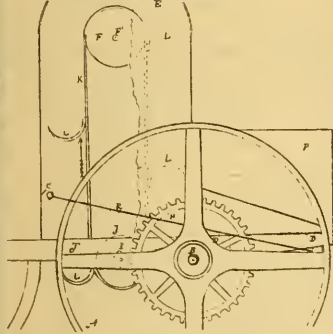
99,032, CHAS. M. THEBERATH. MODE OF COVERING HARNESS-TRIMMINGS.



99,033, F. W. THORLA.
HORSE HAY-FORKS.



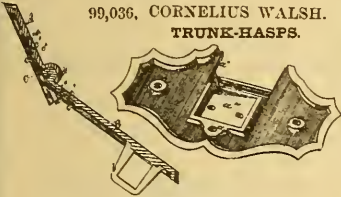
99,034, ELWOOD TUSH
CORN-HARVESTER.



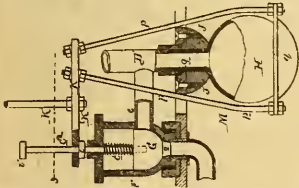
99,035, EDWIN TUTTE.
TIE FOR HOLLOW WALLS.



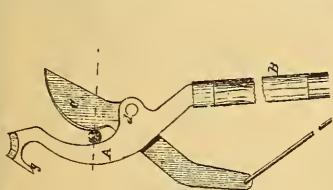
99,036, CORNELIUS WALSH.
TRUNK-HASPS.



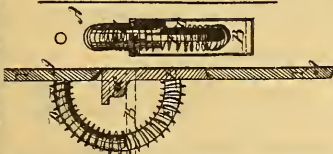
99,037, JAMES WALSH. HYDRANTS.



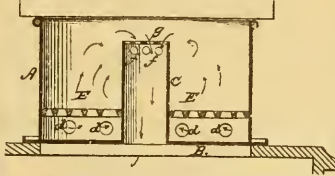
99,038, P. R. WALSH. PRUNING-SHEARS.
G. C. EATON.



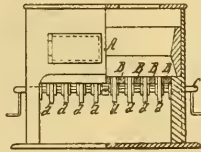
99,039, WILLIAM WEISNER.
STRIKES FOR LOCKS.



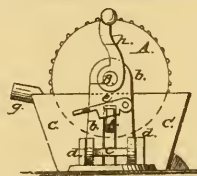
99,040, A. H. WELLINGTON.
SUMMER COOKING-STOVE.



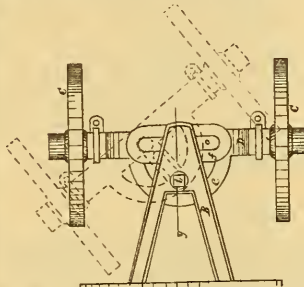
99,041, MARSHALL D. WELLMAN.
STOVE-GRADE.



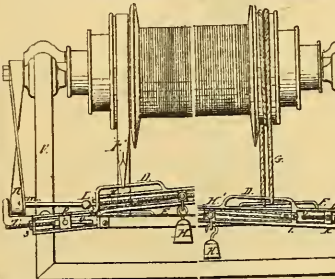
99,042, STEPHEN S. WILCOX.
ELI J. COLEGROVE.
REVOLVING GRATER.



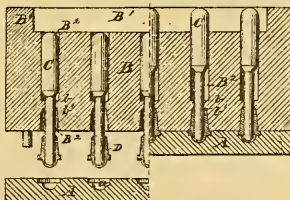
99,043, J. S. WILSON. WAGONS.



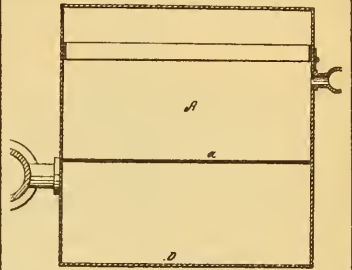
99,044, DANIEL LONG.
JOHN PRESTON.
LET-OFF MECHANISM FOR LOOMS.



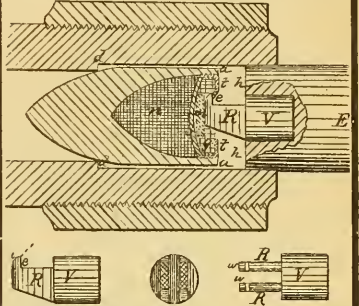
99,045, JOSEPH BANIGAN.
GEORGE W. MILLER.
MOULDS FOR VULCANIZING
RUBBER PENCIL-TIPS.



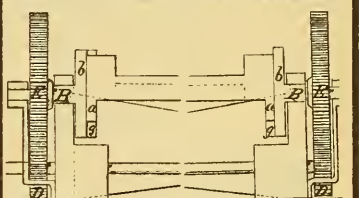
3,797, WM. H. GUILD.
PURGING AND DRAINING SUGAR.



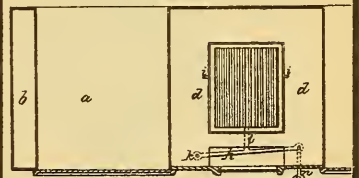
3,798, WM. CLEVELAND HICKS.
BREECH-LOADING FIRE-ARMS.



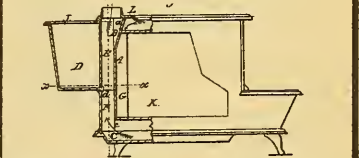
3,799, JOHN N. LYMAN.
STAY-LOG FOR CUTTING VENEERS.



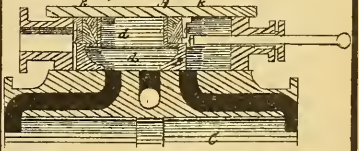
3,800, ELIE MONEUSE.
LOUIS DUPARQUET.
STOVE-GRADE.



3,801, ROBT. SCORER.
COOKING-STOVE



3,802, WM. M. STEVENSON.
BALANCE SLIDE-VALVES.
Horizontal Section.



3,803, F. H. NORTH,
CHARLES PECK,
DESIGN FOR A HINGE.

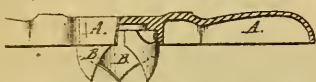
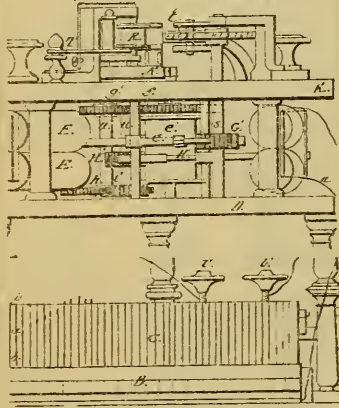
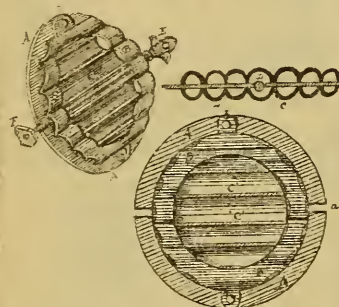
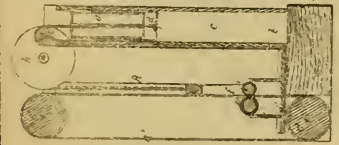
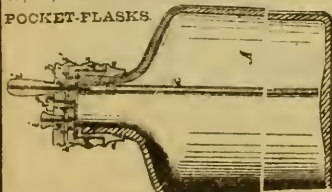
ILLUSTRATIONS OF PATENTS

ISSUED FROM

THE UNITED STATES PATENT OFFICE

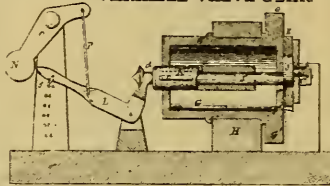
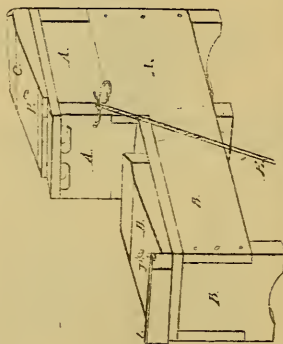
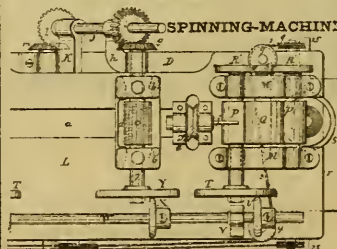
JANUARY 25, 1870.

99,046, H. C. ALEXANDER CAN-OPENERS

99,047, MILTON F. ADAMS.
PRINTING-TELEGRAPHS.99,048, HENRY BAKER.
STOVE-PIPE DAMPER99,049, CYRUS W. BALDWIN.
ELEVATOR FOR HOISTING HUMAN
BEINGS, MERCHANDISE, &c.99,050, MARCUS L. BATTLE.
INSTRUMENT FOR PLUGGING TEETH99,051, ARTHUR TAPPAN BECKER.
POCKET-FLASKS.

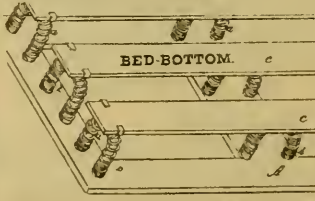
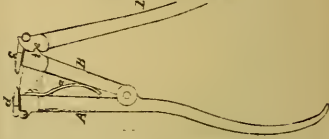
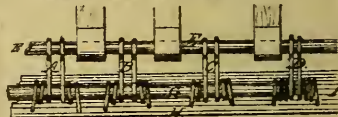
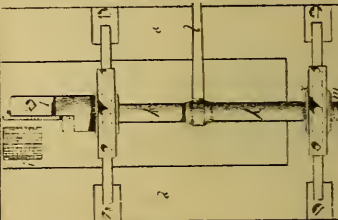
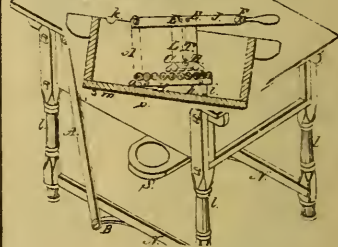
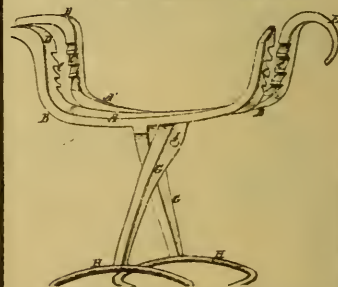
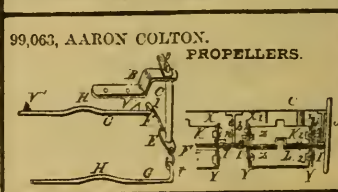
99,052, GEO. M. BIRD.

VARIABLE VALVE-GEAR.

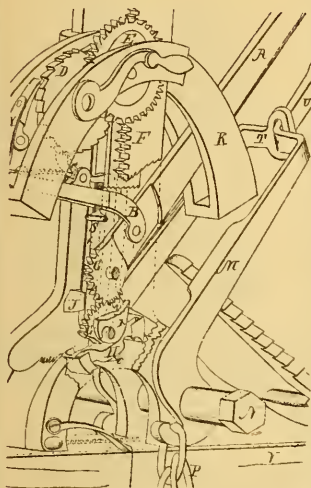
99,053, ANDREW C. BLACK.
MILKING-APPARATUS.99,054, E. BOUSCAY, JR. DEVICE FOR
APPLYING BRAID TO FABRICS
IN SEWING MACHINES.99,055, W. C. BRAMWELL
PAUL BRAMWELL

99,056, WARREN R. BRIGGS

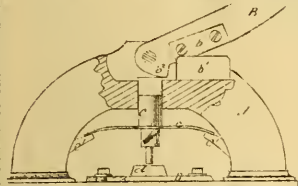
BED-BOTTOM.

99,057, PETER BROADBOOKS.
CUTTING-FINCERS.99,058, ARCHIBALD H. CEILEY.
SPRING-BED BOTTOM99,059, LUKE CHAPMAN
MILLING-MACHINE.99,060, S. W. CLARKE.
WASHING-MACHINE.99,061, T. S. COFFIN.
LIFTER FOR KITCHEN-USE99,062, F. COIGNET, MANUFACTURE
OF ARTIFICIAL STONE99,063, AARON COLTON.
PROPELLERS.

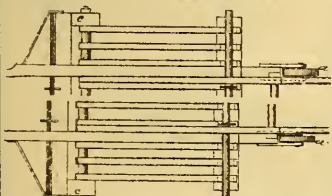
99,064. JOHN COX.
MORTISING-MACHINE.



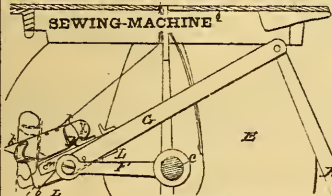
99,065. WILLIAMS CULVER.
PUNCHING AND SHEARING-MACHINE.



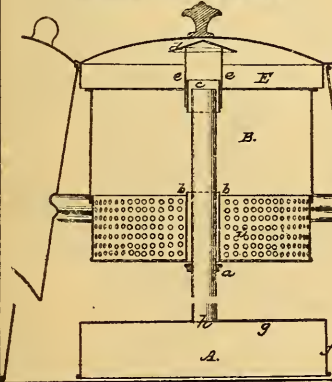
99,066. N. W. CURTIS. HORSE HAY-RAKE.



99,067. JOB A. DAVIS.

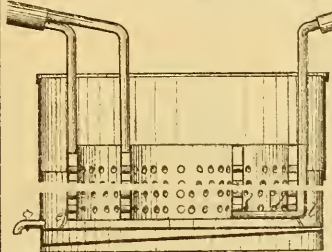


99,068. MARINUS DE GRAFF.
COFFEE-POT ATTACHMENT.

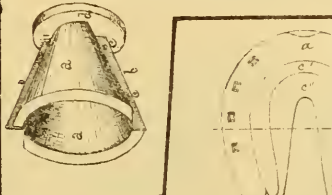


99,069. C. DITTMAN. EXPLOSIVE
AGENT CALLED XYLOGLODINE

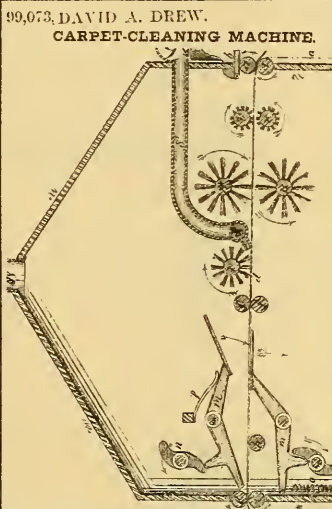
99,070. CARL DITTMAR.
MANUFACTURE OF XYLOGLODINE,
AND OTHER EXPLOSIVE AGENTS.



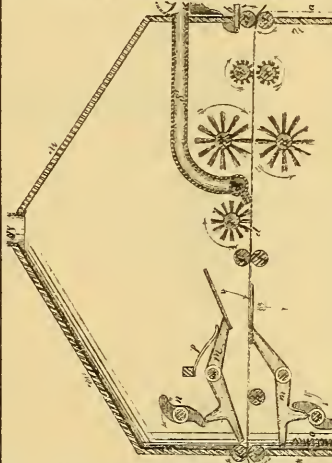
99,071. HEZEKIAH DODGE.
MACHINE FOR DISINTEGRATING
WOOD FOR PAPER-PULP.



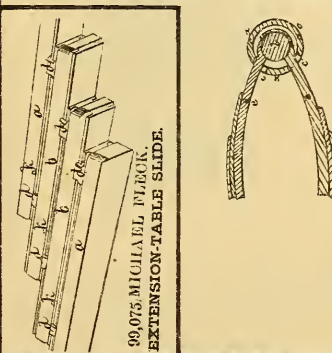
99,072. HAY DOWNIE.
ISAAC BLUE HARRIS.
SHOES FOR HORSES.



99,073. DAVID A. DREW.
CARPET-CLEANING MACHINE.

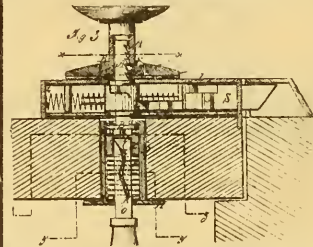


99,074. WILLIAM EVANS.
CLIPS FOR ELLIPTIC SPRINGS.

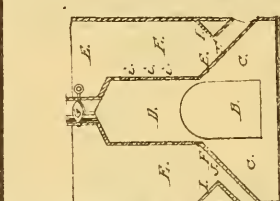


99,075. MICHAEL FLICK.
EXTENSION-TABLE SLIDE.

99,076. R. S. FOSTER. NIGHT-LATCHES.



99,077. W. A. GAY. GRAVEL HEATER.



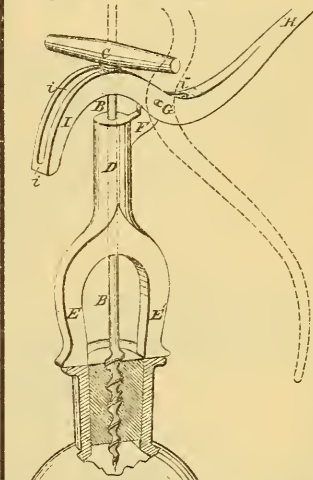
99,078. EDWIN GOMEZ. CARTRIDGES.



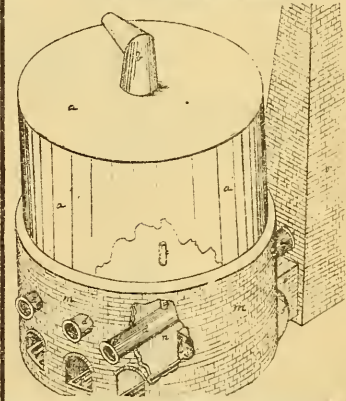
99,079. EDWIN GOMEZ. CARTRIDGES



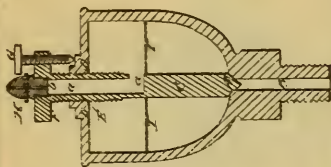
99,080. CHARLES GOOCH.
CORK-EXTRACTORS.



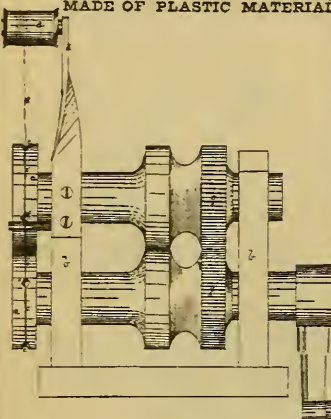
99,081. JOHN GRACIE
STILLS FOR HYDROCARBONS
AND OTHER SUBSTANCES



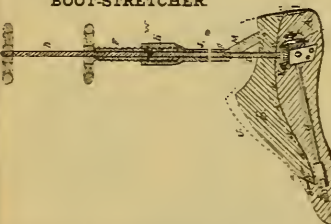
99,082, HENRY HAMMOND.
PORTABLE LUBRICATORS.



99,083, SAM. HART.
MOULDING AND GLAZING FORMS
MADE OF PLASTIC MATERIAL



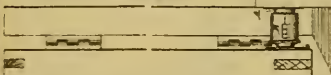
99,084, JOHN HARWOOD.
BOOT-STRETCHER.



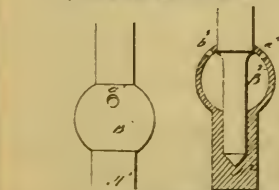
99,085, E. M. HENDRICKSON.
BURGLAR-PROOF SAFES.



99,086, H. H. HESKETT.
MARCUS E. FERGUSON.
COMBINED BASE-KNOB AND
DOOR-FASTENER.

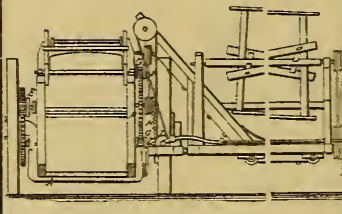
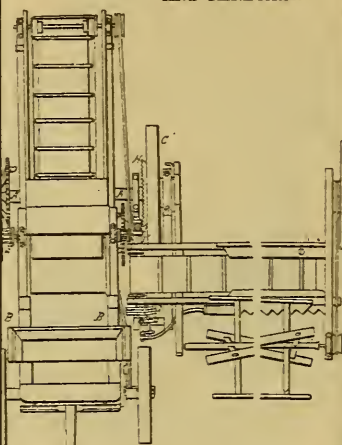


99,087, JAMES P. HILLARD.
STEPS FOR SPINDLES TO
SPINNING-MACHINES.

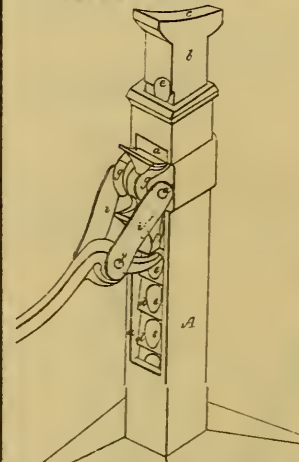


99,088, C. F. HINMAN MANUFACTURE
OF COMPOSITION-ROOFS.

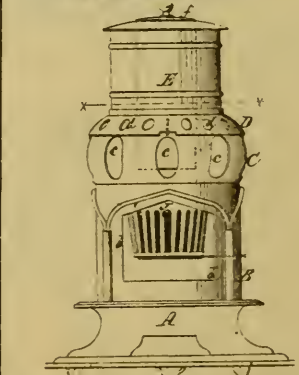
99,089, DAVID HOWELL.
COMBINED HARVESTER
AND THRESHER



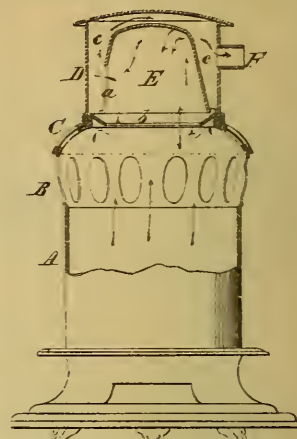
99,090, THOMAS W. JOHNSTON.
CARRIAGE-JACKS.



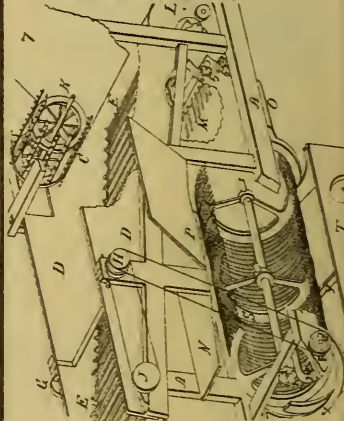
99,091, JOHN H. KEYSER.
BASE-BURNING STOVE.



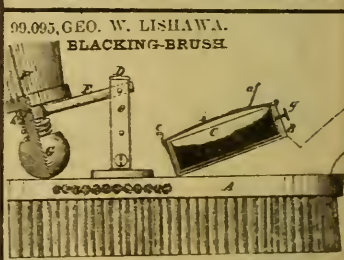
99,092, JOHN H. KEYSER
COAL-STOVE.



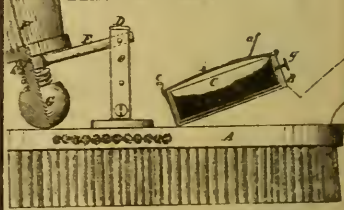
99,093, DENNIS LADD.
GRAIN-SEPARATORS.



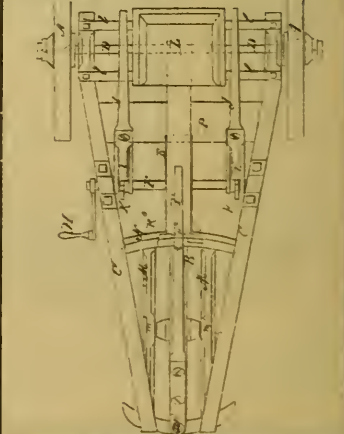
99,094, HENRY LASSING.
PREPARING SEED FOR PLANTING.



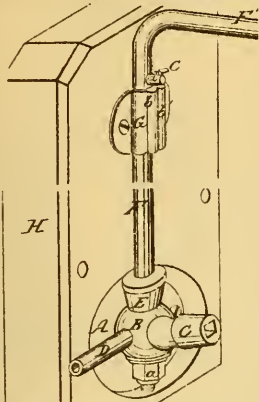
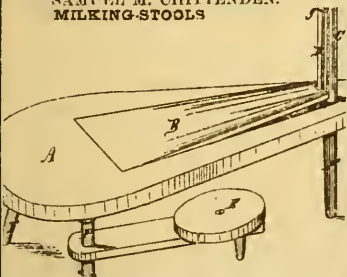
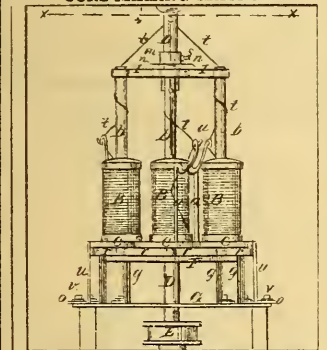
99,095, GEO. W. LISHAWA.
BLACKING-BRUSH.



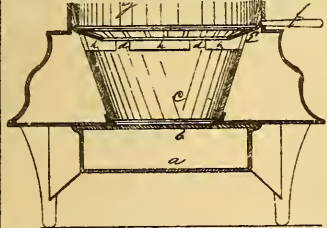
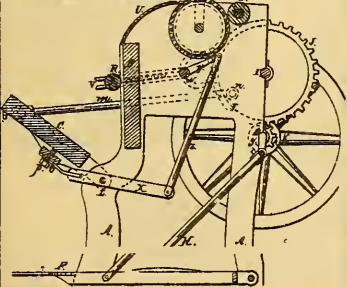
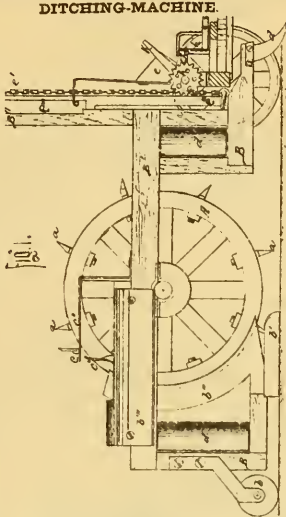
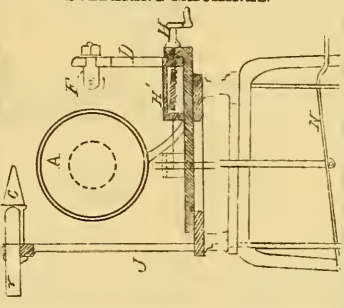
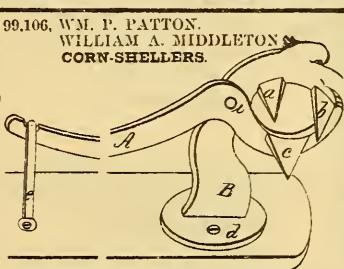
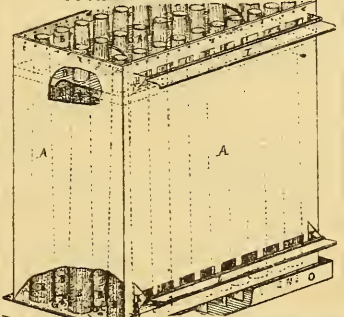
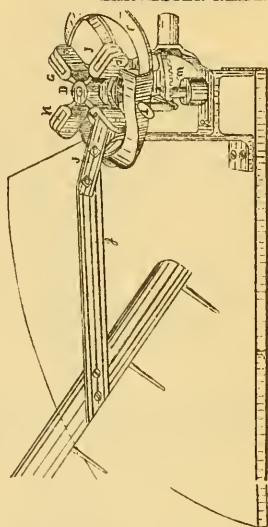
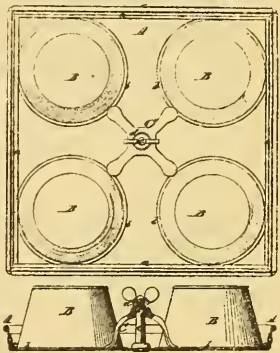
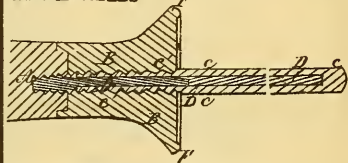
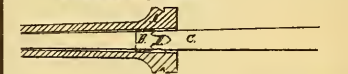
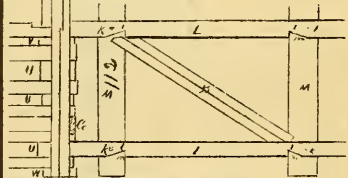
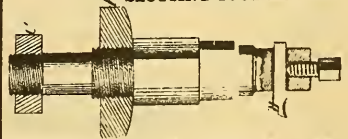
99,096, R. E. LOWE.
VELOCIPEDES.



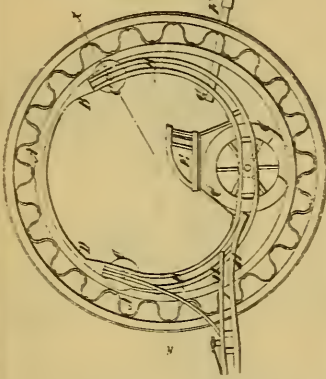
99,097 JACOB R. MANNY HYDRANTS.

99,098 EPHRAIM MARTIN.
SAMUEL M. CHITTENDEN.
MILKING-STOOLS99,099, JAMES MCINTIRE.
CORD-MAKING MACHINE.

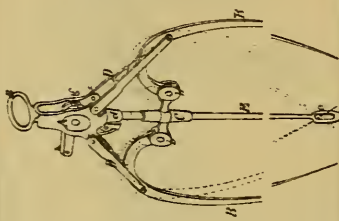
99,100, GEO. R. MOORE. COAL-STOVES.

99,101 W. T. MORGAN'S.
PRINTING-PRESSES.99,102, G. W. NEVILL.
DITCHING-MACHINE.99,103, DANIEL P. NEWELL.
SOLDERING-MACHINES.99,104, JOSIAH H. NICHOLS.
WM. BOWER.
TABLE-CUTLERY.99,105, ALFRED PARAF.
METHOD OF FIXING PIGMENTS TO
FIBROUS AND TEXTILE MATERIALS.99,107, CHARLES F. PIKE.
COOLING-APPARATUS.99,108. W. PIMLOTT.
HARVESTER RAKE.99,109, ABRAM I. QUACKENBUSH.
GUILFORD HAWN.
DEVICE FOR BAKING BREAD.99,110, WILLIAM W. RICHARDSON.
SAW-HANDLES99,111, JOHN SALISBURY.
BOBBIN-HOLDER.99,112, DAVID SATTLEK.
FIELD-FENCE99,113, WILLIAM SEATON.
SLOTTING-TOOL HOLDER

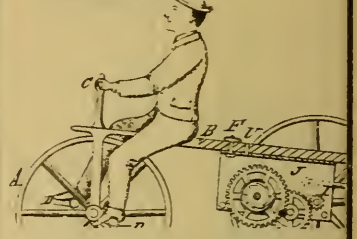
99,114. JAS. A. SINCLAIR.
ONE-WHEELED SULKY.



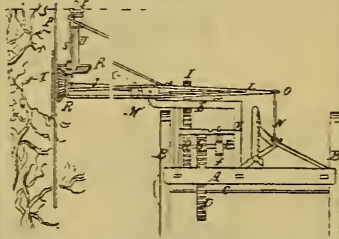
99,120. GEO. N. STEARNS.
HORSE HAY-FORKS.



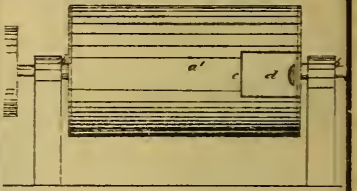
99,127. ARTHUR M. ALLEN.
TOY PROPELLER.



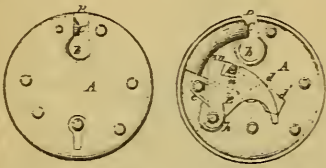
99,121. JAMES M. VAN NOSDALL.
OLIVER W. VAN NOSDALL.
HEDGE-TRIMMER.



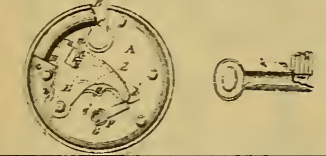
99,128. J. R. ALSING. APPARATUS
FOR PULVERIZING PORCELAIN PASTE.



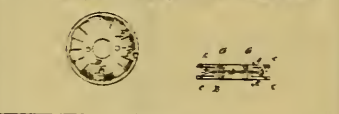
99,115. F. W. SMITH, JR. PADLOCKS.



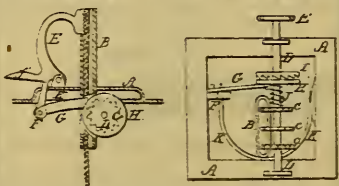
99,116. F. W. SMITH, JR. PADLOCKS.



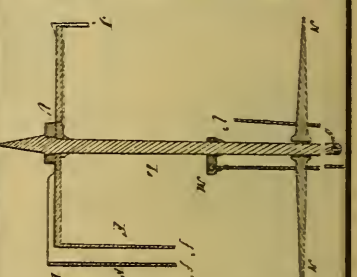
99,122. J. S. WARNER. THREAD-TENSION
DEVICE FOR SEWING-MACHINE.



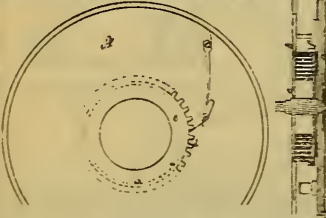
99,123. WM. H. WEEKS.
AUTOMATIC LIGHTING-ATTACHMENT
FOR LAMPS AND TAPER-BURNERS.



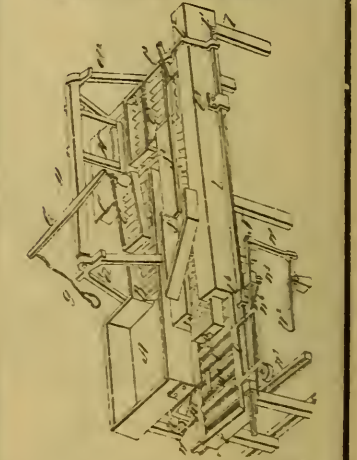
99,129. N. AUBIN. PEAT AUGER.



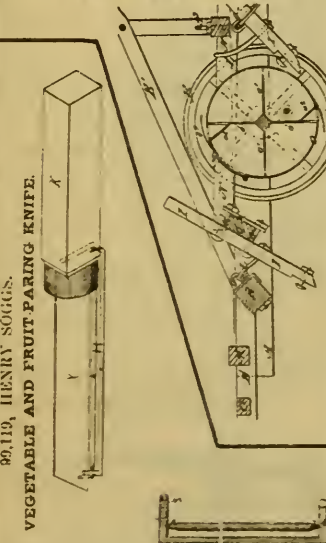
99,117. S. CURTIS SMITH.
SAFETY-STOP FOR WATCHES.



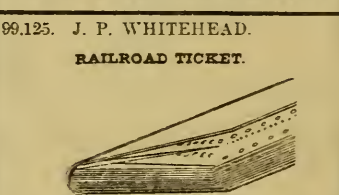
99,130. N. AUBIN.
PEAT-MOULDING MACHINES.



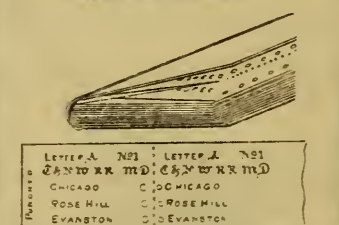
99,118. T. J. SMITH. COMBINED PLOW,
PLANTER, AND CULTIVATOR.



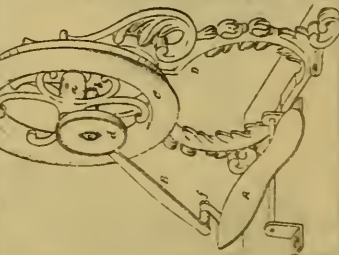
99,124. JOHN WERNER. COMPOSITION
FOR LINING ALE AND BEER-CASES.



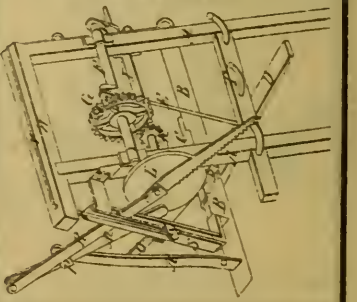
99,125. J. P. WHITEHEAD.
RAILROAD TICKET.



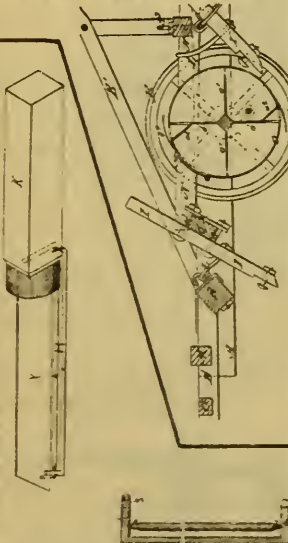
99,126. CHAS. H. WILLCOX.
TREADLES FOR SEWING-MACHINES



99,131. LOUIS BACH.
L. C. CHRISTLIP.
SAWING-MACHINES

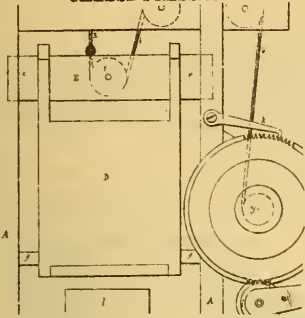
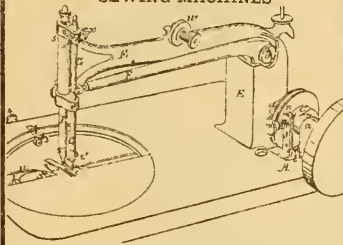
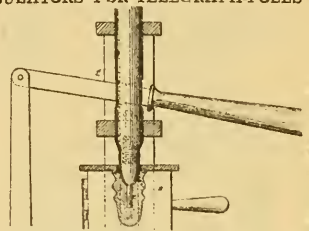


99,119. HENRY SOGGS.
VEGETABLE AND FRUIT-PARING KNIFE.



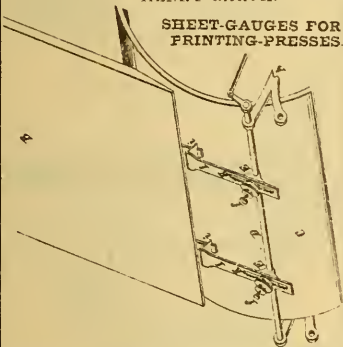
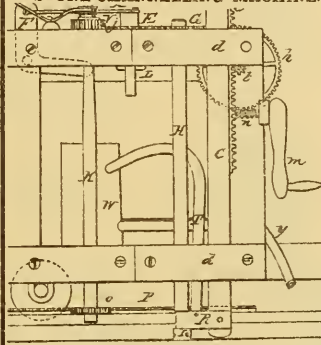
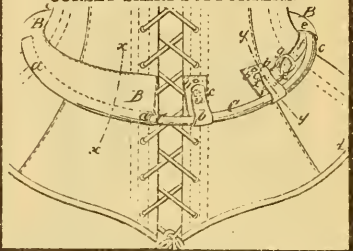
99,132, ALBERT G. BAGG.

CHEESE-FRESSES.

99,138, JOSEPH BENNOR.
SEWING-MACHINES99,145, HOMER BROOME.
MANUFACTURE OF
INSULATORS FOR TELEGRAPH-POLES

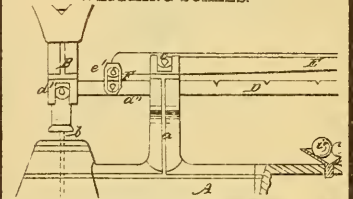
99,133,

HENRY BARTH.

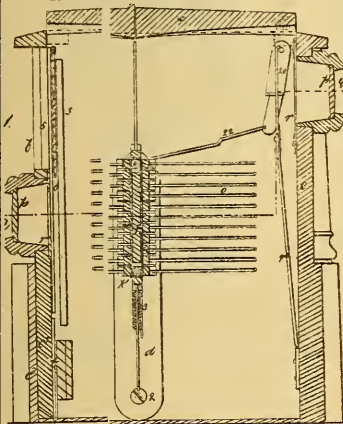
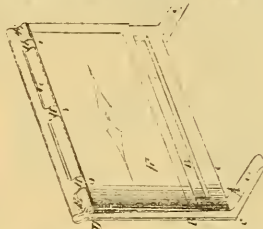
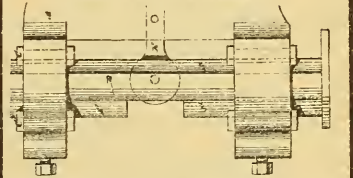
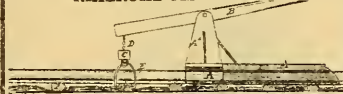
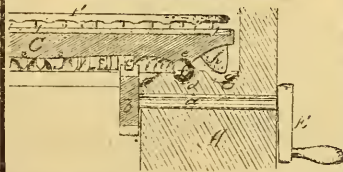
SHEET-GAUGES FOR
PRINTING-PRESSES.99,139, VIRGIL W. BLANCHARD.
STONE-CHANNELLING MACHINE.99,146, J. W. BROOKS.
CORSET SKIRT-SUPPORTERSALBERT G. BROWN. INK-RETAINING
99,147, ATTACHMENT FOR PENS

99,148, DENNIS BUOY.

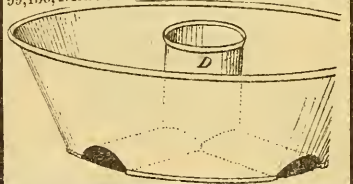
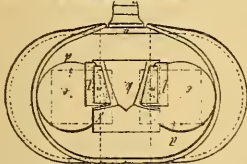
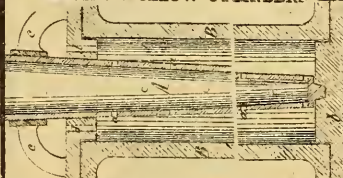
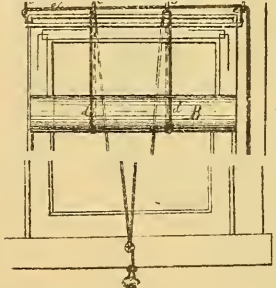
WEIGHING-SCALES.



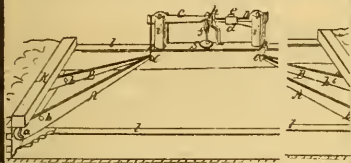
99,134, G. A. BECKER. FOUNTAIN-PENS.

99,135, ALEX. BECKERS.
REVOLVING STEREOSCOPES.99,140, JOHN BLAND.
DASH-BOARDS FOR CARRIAGES.99,149, WM. BURKE.
IMPROVED DIE-PRESS.99,141, E. BOIVIN AND D. LOISEAU
PROCESS OF EXTRACTING,
MANUFACTURING, AND REFINING
SUGAR.99,142, ELLIAB BOMAR.
RAILROAD-TIE LIFTERS.99,143, JOHN C. BREWSTER.
DESULPHURIZING-OVENS.

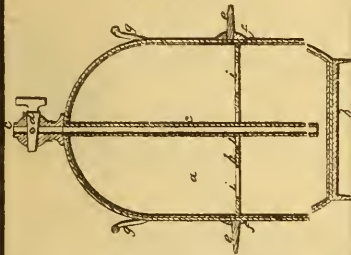
99,150, NELSON C. BURNAP. MILK-PANS.

99,136, ALEX. BECKERS.
STEREOSCOPES99,137, GEORGE CYRUS BECKWITH
JOINERS' PLANES.99,144, JOHN W. BRITIN.
CASTING HOLLOW CYLINDERS99,151, JAMES WM. BURNS.
CURTAIN AND MAP-FIXTURE.

99,169, DANIEL H. DEWEY.
PLATFORM-SCALES FOR
HAY OR CATTLE



99,170, GUSTAVUS D. DOWS.
SODA-FOUNTAINS.

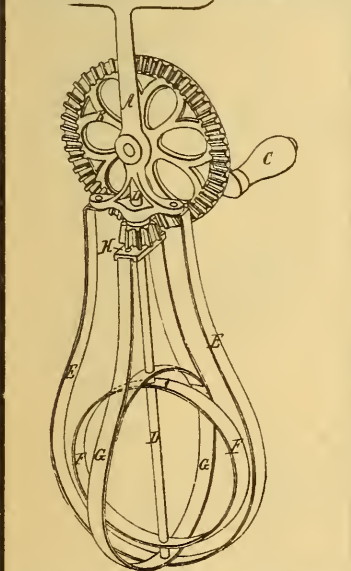


99,171, THOMAS M. DROWN.
WATER-PROOF FABRIC.

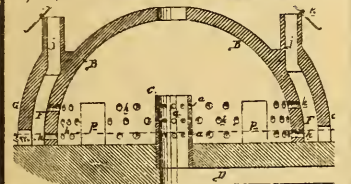
99,172, M. C. DUFFEY.
FLEXIBLE JOINTS FOR WATER-PIPES.



99,173, TIMOTHY EARLE. EGG-SEATER.

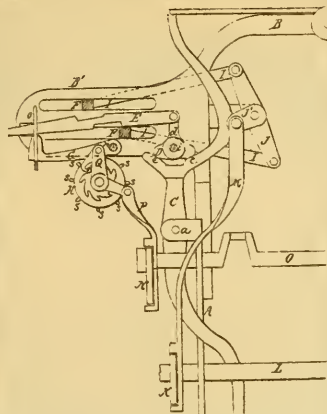


99,174, WILLIAM ENNIS. BRICK-KILNS.

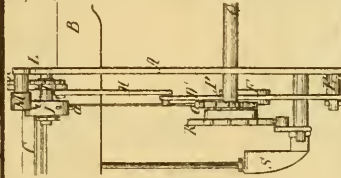


99,175, RECTIFYING
WHISKEY DURING DISTILLATION.

99,176, GEORGE S. FAULKNER.
HARNESS-OPERATING
MECHANISM FOR LOOMS.



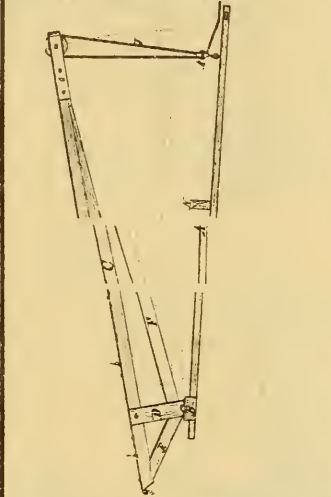
99,177, GEORGE S. FAULKNER. LOOM



99,178, JOSEPH G. FOX.
KEY-HOLE GUARD AND PROTECTOR.

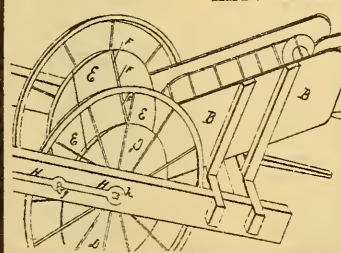


99,179, HENRY M. FLANAGIN.
LEVER AND STUMP-PULLER.

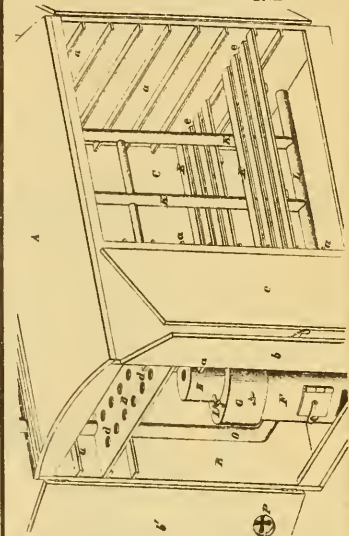


99,180, HENR. GAHN.
PRESERVING MEAT.

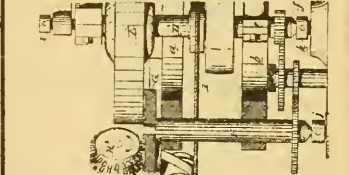
99,181, CYRUS R. GARLINGHOUSE.
HAY-LOADERS.



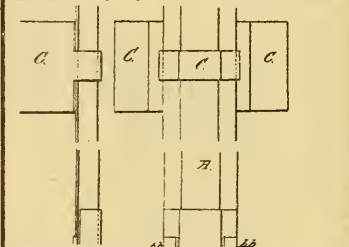
99,182, HENRY GARRETT. DRIER.



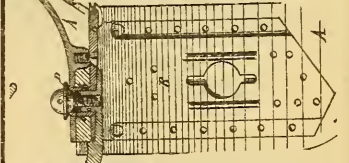
99,183, JOHN D. HALL. MACHINE FOR
GRINDING PEARL BUTTON-BLANKS.



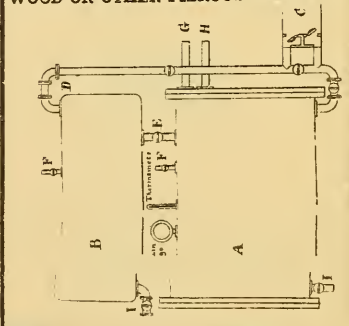
99,184, JAMES W. HANKENSON.
LIGHTNING-RODS AND CONDUCTORS.



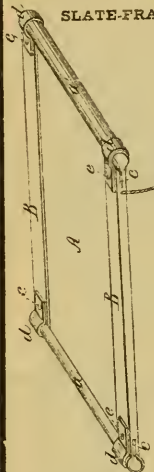
99,185, ROBT. HART.
HARNESS-SADDLE HOOKS.



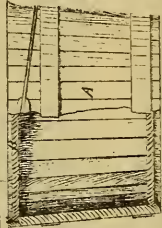
99,186, HERMAN HAUPT.
DRYING, PRESERVING, AND COLORING
WOOD OR OTHER FIBROUS MATERIAL.



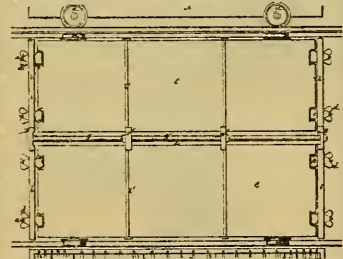
99,187, WILLIAM HERSEE.
SLATE-FRAMES.



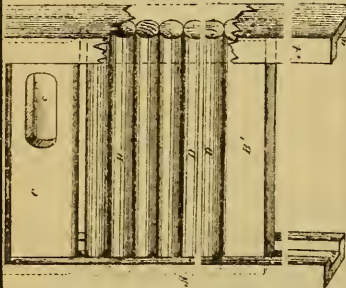
99,188, S. F. HESS.
PACKING-CASE
FOR TOBACCO.



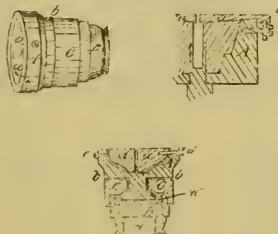
99,189, JOHN H. HIGGINS.
APPARATUS FOR STEAMING YARN.



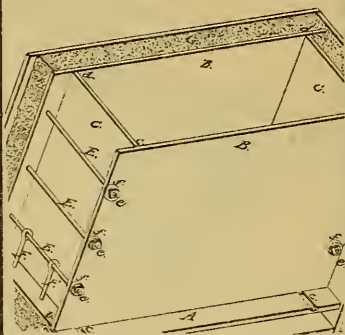
99,190, HENRY F. HILDEBRAND.
DOUBLE WASH-BOARD



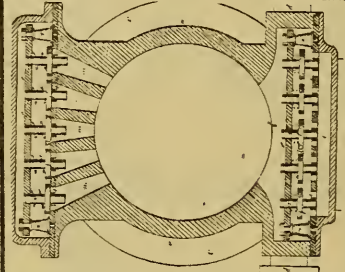
99,191, LYSANDER S. HILL.
JEWELLERS' CHUCK.



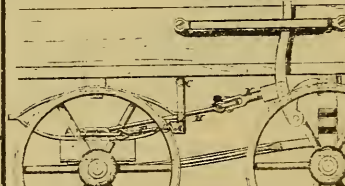
99,192, PETER S. HOE.
BATTERIES FOR ELECTROTYPING.



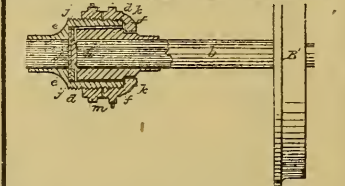
99,193, JOSEPH W. HOPKINS. AIR-PUMPS.



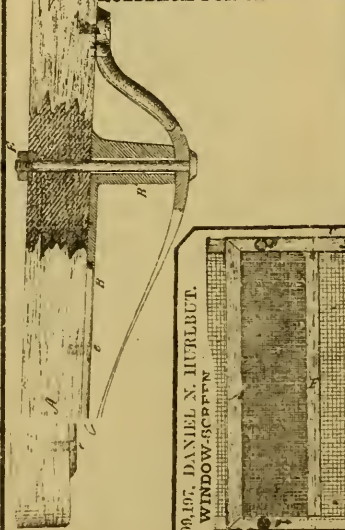
99,194, CHARLES M. HOWELL.
WAGON-BRAKES.



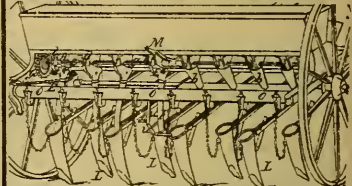
99,195, FRANK HUDNER.
RAILWAY-CAR AXLE.



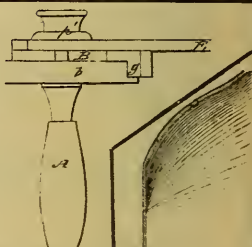
99,196, JAMESON HUNLOCK.
HOLDBACK FOR CARRIAGES.



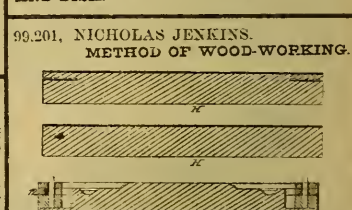
99,198, JOSEPH INGELS.
GRAIN-DRILL AND BROADCAST-SOWER.



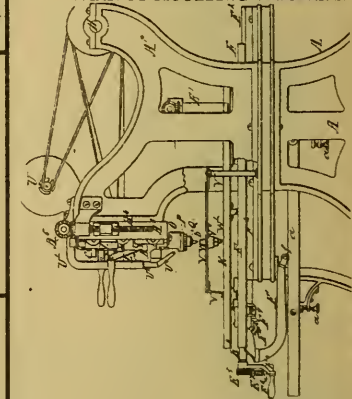
99,199, SIMON INGERSOLL.
FRICTION CLUTCH.



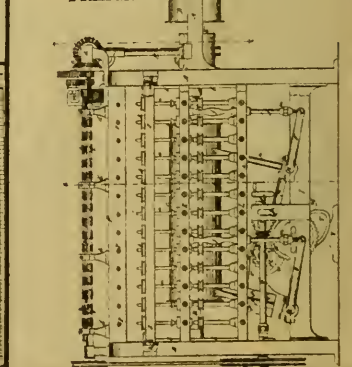
99,200, JOHN W. JARROE.
PAPER PAN, BOWL, BOX
AND DISH.



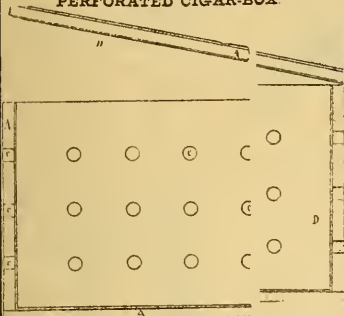
99,201, NICHOLAS JENKINS.
METHOD OF WOOD-WORKING.



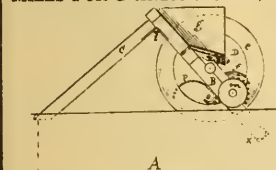
99,203, BARTON H. JENKS.
RING SPINNING-
FRAME.



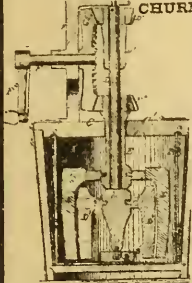
99,204, RALPH S. JENNINGS.
PERFORATED CIGAR-BOX



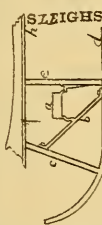
99,205, JAMES J. JOHNSTON.
MILLS FOR GRINDING CORN.



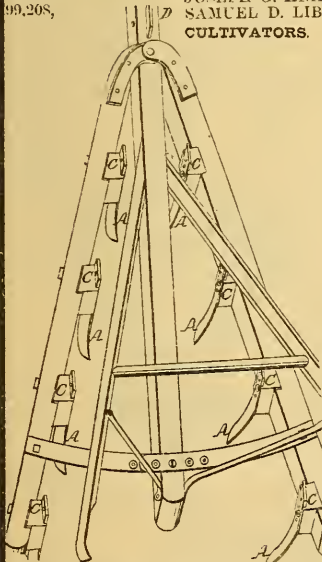
99,206, JOSEPH B. JOHNSTON.
CHURNS



99,207,
C. P. KIMBALL.
SLEIGHS.



99,208, JOSEPH G. KNAPP,
SAMUEL D. LIBBY.
CULTIVATORS.



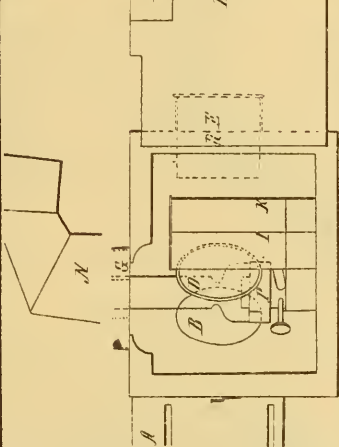
99,209, CHARLES KOEHLER.
MACHINES FOR ROUNDING SHOT.



99,210, A. KOMP.
RAILWAY-CAR WHEEL.

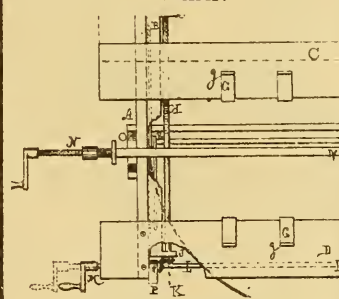


99,211, A. KRÜSS.
MAGIC LANTERN



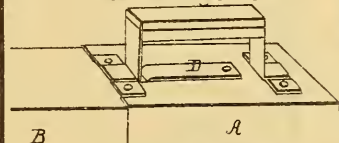
99,212, J. S. LADOW.

CLAMP.



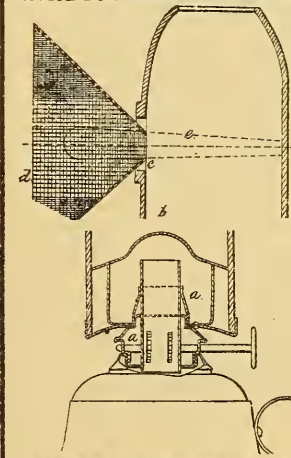
99,213, ELLIOT LEWIS.

SAD-IRON HEATER.

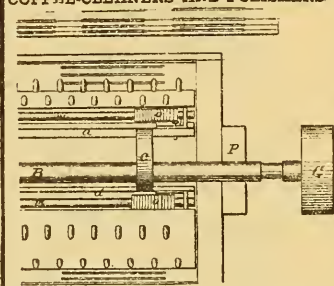


99,214, W. H. LEWIS.

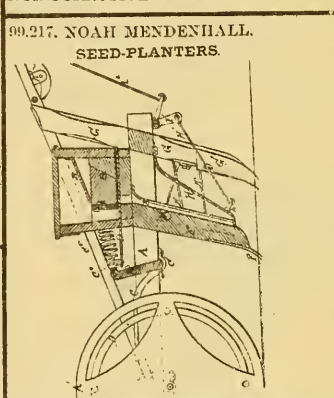
DEVICE FOR DESTROYING INSECTS.



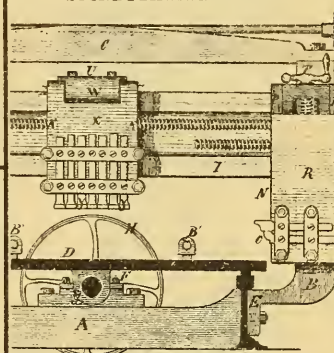
99,215, H. C. LOCKWOOD.
COFFEE-CLEANERS AND POLISHERS



99,216, OLIVER T. MAY.
NON-CORROSIVE METALLIC ROOFING.

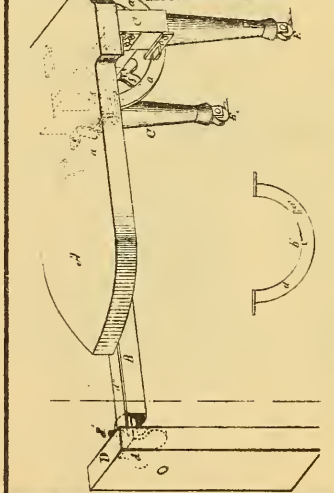


99,218, ANDREWS T. MERRIMAN.
STONE-PLANING MACHINE.



99,219, SAMUEL MERRITT.

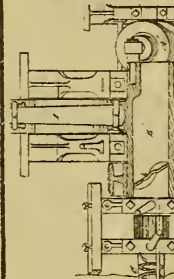
IRONING-TABLE.



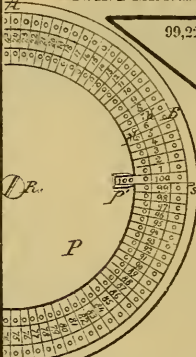
99,220, GEO. MILBANK.
STEAM-ENGINE-GOVERNOR CUT-OFFS.



99,221,
J. MONTGOMERY
ROLLING-MILL.



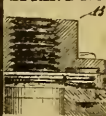
99,226, H. PARMELEE.
ADDING-MACHINE.



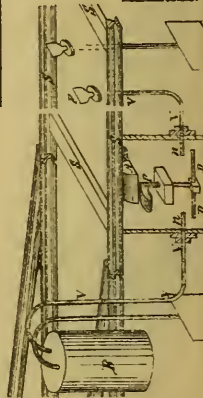
99,227, C. PARTRIDGE
PRESTON.
POST-AUGERS.



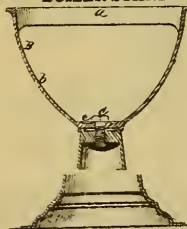
99,232, DANIEL R. PRATT.
SPRING-NUT.



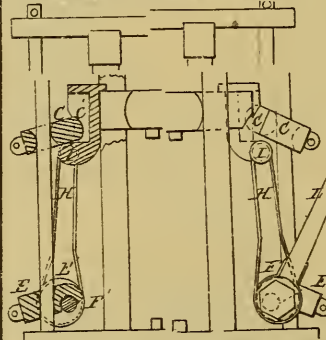
99,233, T. A. B. PUTNAM.
RAILROAD-SWITCH
ELECTRO-MAGNETIC
ALARMS.



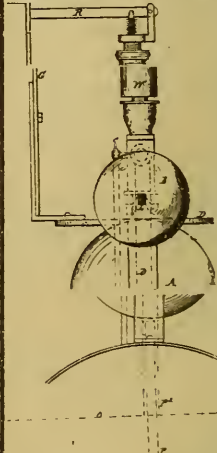
99,222, JORDAN L. MOTT.
BOILER-STAND.



99,228, I. N. PATTEN.
D. G. MARDEN.
HAY AND COTTON-PRESSES.

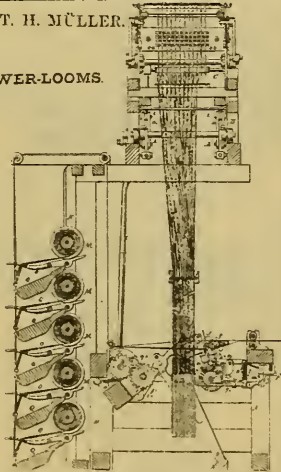


99,234, ROBERT BERRYMAN.
LOW-WATER INDICATOR AND
FEED-WATER REGULATOR.

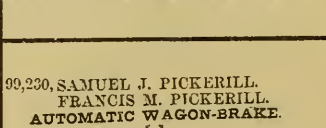


99,223, T. H. MÜLLER.

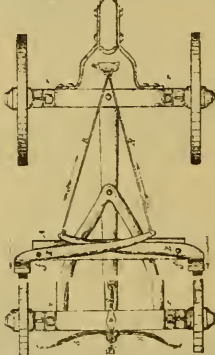
POWER-LOOMS.



99,229, MORWIN DORMAN PENNOYER.
PAINT OR COATING FOR ROOFS.



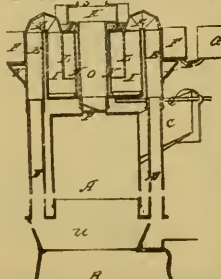
99,230, SAMUEL J. PICKERILL.
FRANCIS M. PICKERILL.
AUTOMATIC WAGON-BRAKE.



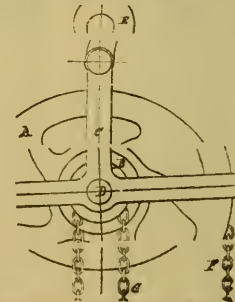
99,224, JUNIUS S. NORTON.
POCKET-SAFES FOR
FRICTION-MATCHES.



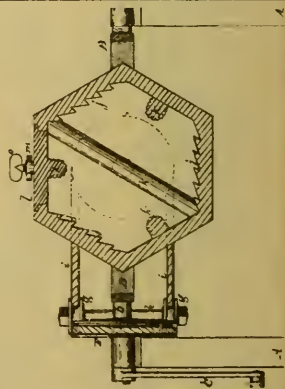
99,225, FRANK Z. OBERMEYER.
WILLIAM HALLE.
BASE-BURNING STOVES.



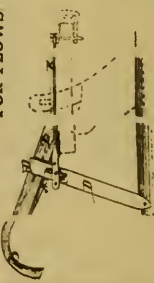
99,231, JONATHAN PICKERING.
APPARATUS FOR RAISING AND
LOWERING WEIGHT

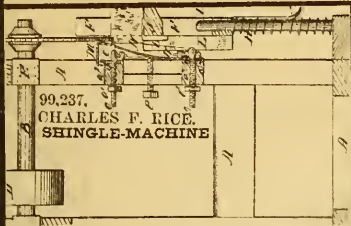


99,235, THOMAS REES.
WASHING-MACHINE

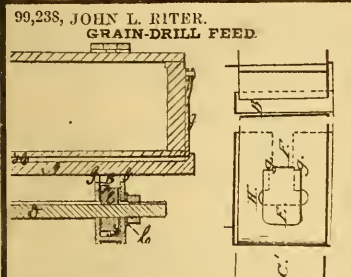


99,236, A. A. RHODES.
WILEY TASH.
PULVERIZING-ATTACHMENT
FOR FLOWS.

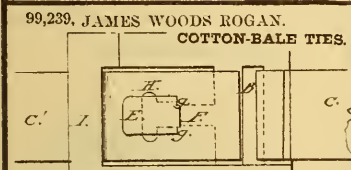




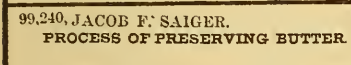
99,237, CHARLES F. RICE.
SHINGLE-MACHINE.



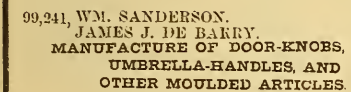
99,238, JOHN L. RITER.
GRAIN-DRILL FEED.



99,239, JAMES WOODS ROGAN.
COTTON-BALE TIES.



99,240, JACOB F. SAIGER.
PROCESS OF PRESERVING BUTTER.



99,241, WM. SANDERSON.
JAMES J. DE BARRY.
MANUFACTURE OF DOOR-KNOBS,
UMBRELLA-HANDLES, AND
OTHER MOULDED ARTICLES.



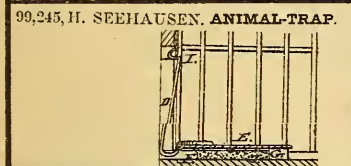
99,242, WM. SANDERSON.
JAMES J. DE BARRY.
HANDLES FOR
KNIVES, FORKS.



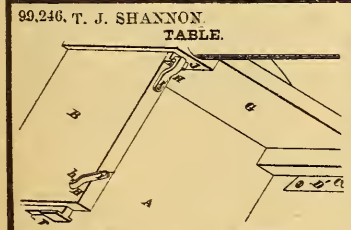
99,243, O. S. SANFORD. NECK-YOKES.



99,244, BENJAMIN SCHOPP.
CHRISTIAN SCHOPP.
LIFTING-JACKS.

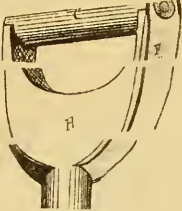


99,245, H. SEEHAUSEN. ANIMAL-TRAP.

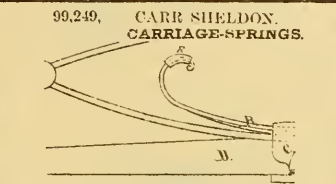


99,246, T. J. SHANNON.
TABLE.

99,247, JOHN L. SHAW.
SPOON-HANDLE.



99,248, ALEXANDER J. SHELDON.
MANUFACTURE OF
PARCHMENT-PAPER.

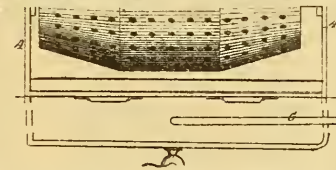


99,249, CARR SHELDON.
CARRIAGE-SPRINGS.

99,250, AMOR SMITH.
PROCESS OF RENDERING LARD,
TALLOW, AND OTHER FATS.

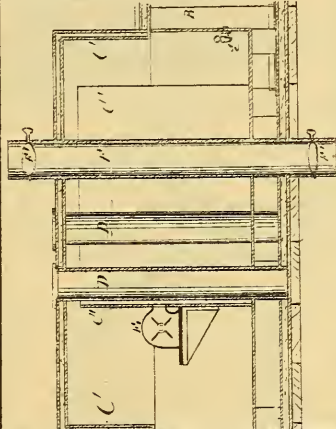
99,251, AMOR SMITH.
PROCESS FOR TREATING FISH TO
OBTAIN OILS AND FERTILIZERS.

99,252, AMOR SMITH. APPARATUS FOR
RENDERING FATTY ANIMAL MATTER.



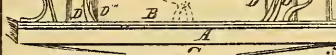
99,253, AMOR SMITH. DISINFECTING
PROCESS FOR RENDERING RANCID
ANIMAL FATS, AND FOR
THE GASES EVOLVED.

99,254 D. E. SOMES. APPARATUS FOR
PRESERVING AND FREEZING.

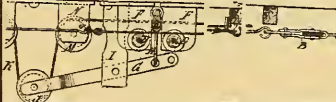


99,255, I. W. SPEYER. FERTILIZERS.

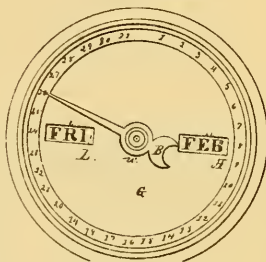
99,256, B. W. SQUIRES.
CHAS. M. CLINTON.
ATTACHMENT FOR HARVESTERS.
BINDING.



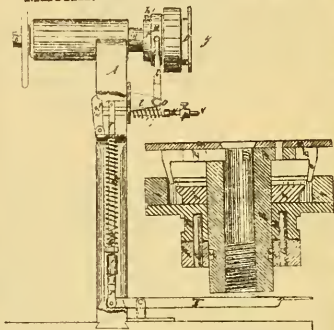
99,257, JOSEPH STEGER.
RAILWAY-CAR BRAKES.



99,258, WM. A. TERRY.
CLOCK-CALENDARS.



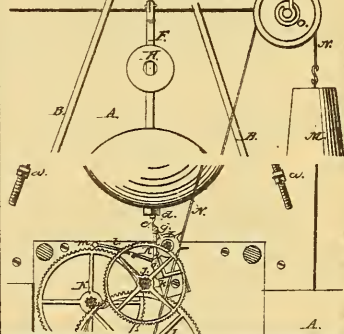
99,259, NICHOLAS THOMAS.
MACHINE FOR THREADING BOLTS.



99,260, GEORGE K. THOMPSON
PAINT-BRUSH.



99,261, THOS. THOMPSON.
CLOCKS.



99,262, WM. H. TOWERS.
WATER-PROOF SHOES.

99,263, S. CURTIS TRUBBEE.
WINDOW-BUTTONS.



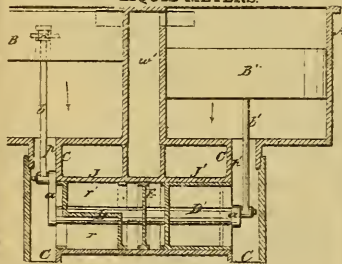
99,264, CHARLES VAN DE MARK
COOKING-STOVE.



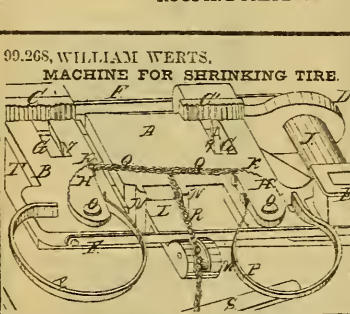
99,265, THEODORE VAN TASSELL.
R. STARR POLLOCK.
SMOOTHING-IRON HANDLE.



99,266, FRANZ WAGNER.
LIQUID-METERS.



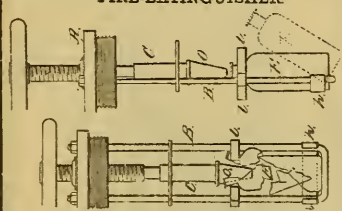
99,267, PELAG WERNI.
ROOFING-MATERIAL.



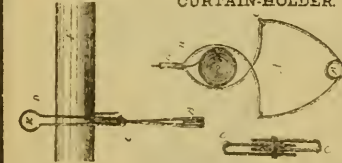
99,269, J. P. WEST.
LATHE-DOG.



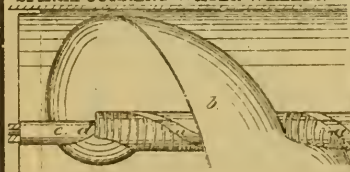
99,270, C. G. WHEELER.
FIRE-EXTINGUISHER.



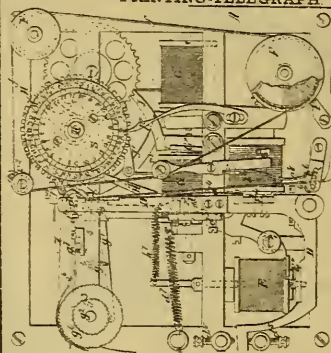
99,271, GEO. W. YOUNT.
P. P. REISTER.
A. L. KEEFOOT.
WILLIAM YOUNT.
CURTAIN-HOLDER.



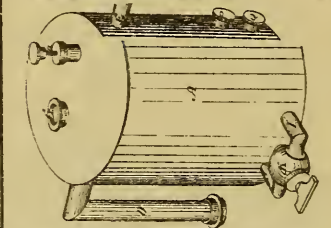
99,272, JOHN ZIMMERMAN.
SPIRAL-CURRENT WATER WHEELS.



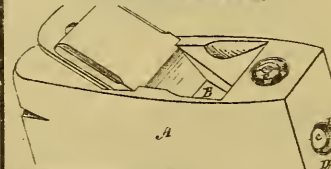
99,273, S. S. LAWS.
PRINTING-TELEGRAPH.



99,274, JAMES F. SPENCE.
JOVIA D. TOWSLEY.
APPARATUS FOR CARBURETTING AIR.



99,275, LOUIS D. TREDWAY.
BENCH-PLANE.



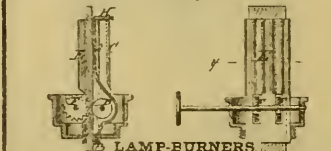
99,276, JACOB RAYLS.
PAINT-BRUSH.



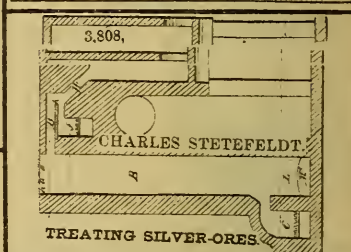
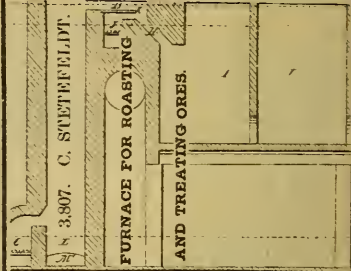
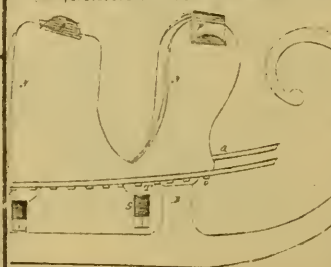
3,804, JAMES MCCORMICK.
BREWING ALE, BEER.



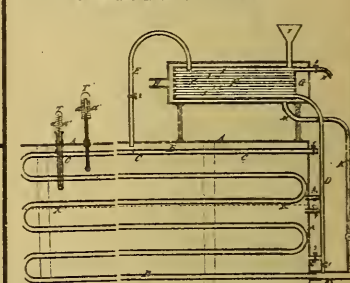
3,805, WILLIAM F. RIPPON.
GEO. A. JOHNSON.
LAMP-BURNERS.



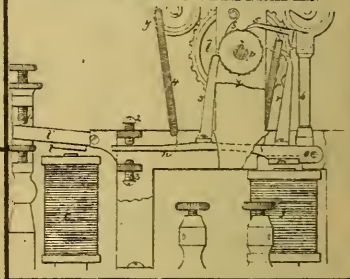
3,806, MARSHAW SCOTT. SKATES.



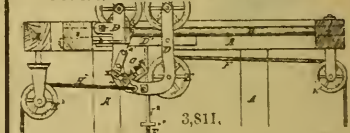
3,809, H. L. STUART.
STEAM-GENERATORS.



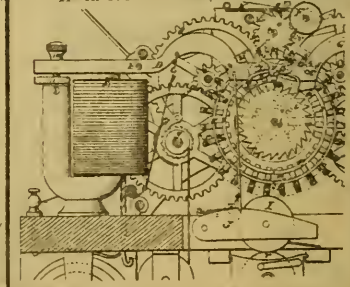
3,810, GEO. B. FIELD.
H. L. HOTCHKISS.
PRINTING-TELEGRAPHS.



A. LOOMIS. HOISTING-APPARATUS.



GOLD & STOCK
3,812, GEO. B. FIELD.
H. L. HOTCHKISS.
PRINTING-TELEGRAPHS.

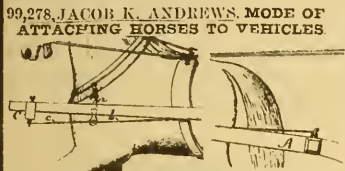
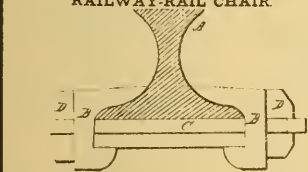
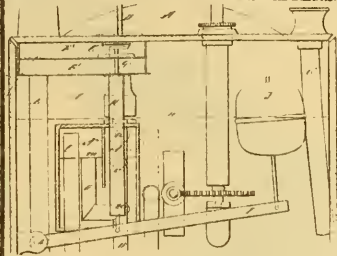


ILLUSTRATIONS OF PATENTS

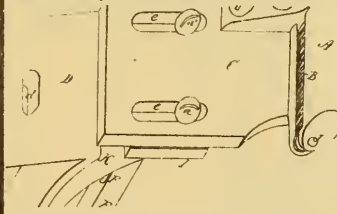
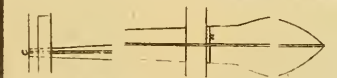
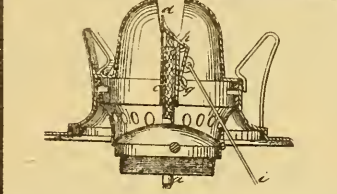
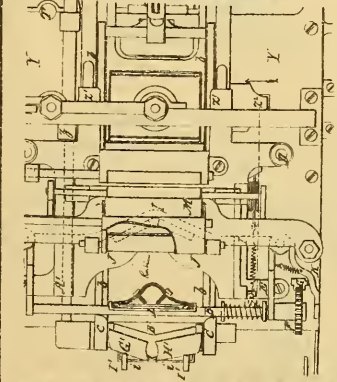
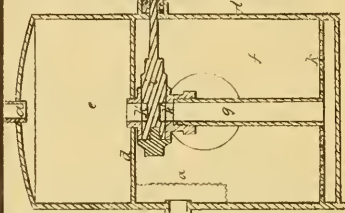
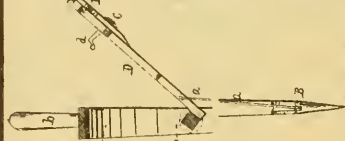
ISSUED FROM

THE UNITED STATES PATENT OFFICE

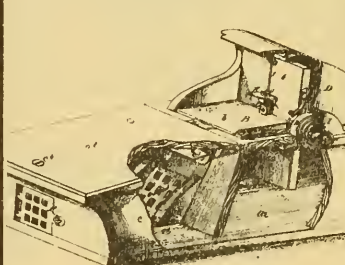
FEBRUARY 1, 1870.

99,277, THOS. R. ABBOTT.
ROOFING-COMPOSITION.99,278, JACOB K. ANDREWS. MODE OF
ATTACHING HORSES TO VEHICLES99,279, RICHARD ANTHONY.
RAILWAY-RAIL CHAIR99,285, THOMAS BRATTAN.
GAS-METERS.

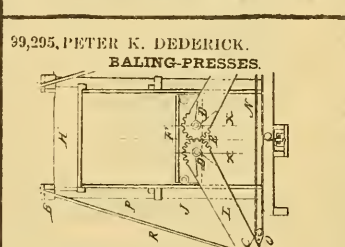
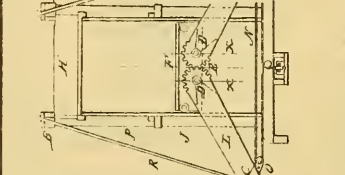
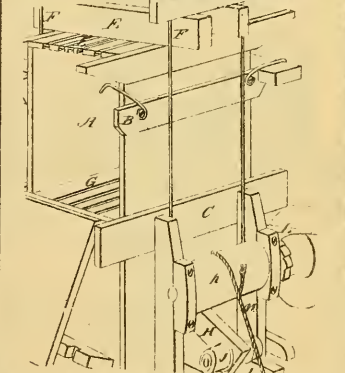
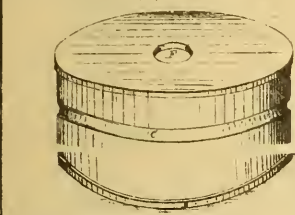
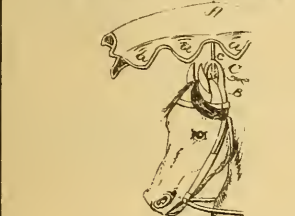
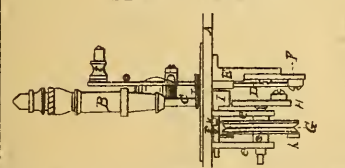
99,286, GEO. W. BROWN. SEED-PLANTER.

99,287, W. H. BURNS.
ROLLER-JAW TEMPLE FOR LOOM99,288, M. K. BUTTERFIELD.
FENCE-POSTS.99,289, S. C. CATLIN.
A. CORBIN. LAMP-EXTINGUISHER.99,290, HENRY W. CHAMBERLIN.
ENVELOPE-MACHINES.99,291, J. H. CLARK. APPARATUS
FOR EXTINGUISHING FIRES.99,292, SIMEON CLARK.
HORSE HAY-FORKS.

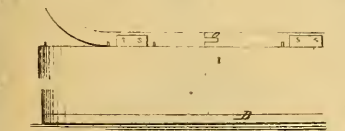
99,293, W. J. CLARKSON. ANIMAL-TRAP.



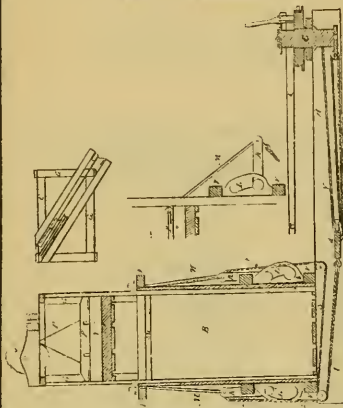
99,294, JOHN COMMINS. FERTILIZERS.

99,295, PETER K. DEDERICK.
BALING-PRESSES.99,296, PETER K. DEDERICK.
BALING-PRESSES.99,280, L. AUSTIN.
J. E. HALL. POWDER-KEG99,281, SAMUEL RABBITT.
BOOTS AND SHOES.99,282, EDW. T. BALCH, M. D.
SUN-SHADES FOR HORSES.99,283, W. BLACK.
SEWING MACHINE.

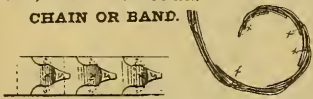
99,284, T. BOND. TRUNK.



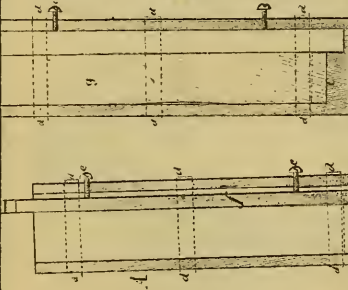
99,297, PETER K. DEDERICK.
BALING PRESSES.



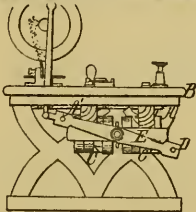
99,298, JOHN H. DOERR.
CHAIN OR BAND.



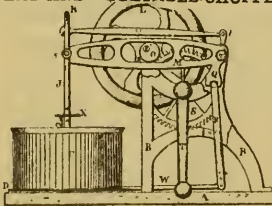
99,299, PATRICK DOYLE
MOULDS FOR MAKING COMBINED
INGOTS OF STEEL AND IRON.



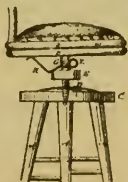
99,300, A. E. DUPAS.
ELECTRO-MAGNETIC MACHINES.



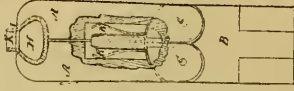
99,301, S. F. EMERSON.
MEAT AND VEGETABLE-CHOPPER.



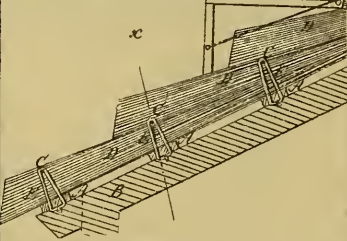
99,302, AMASA J. FINCH.
PRINTERS' CHAIR.



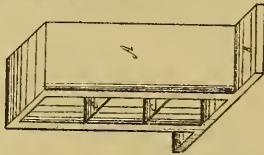
99,303, DEMSEY FOREST.
MACHINE FOR BENDING STIRRUPS.



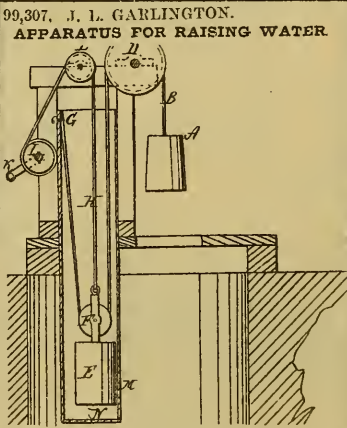
99,304, LIONEL FOSTER. THATCH ROOF.



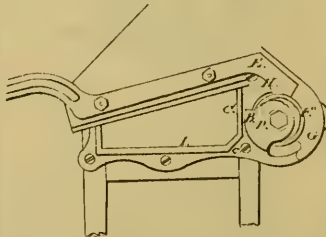
99,305, H. GALMANN AND C. RUHE.
JOIST PROTECTOR.



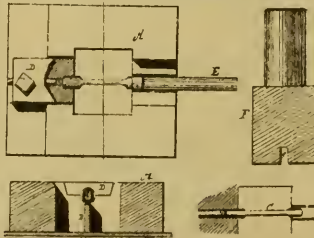
99,306, SMITH GARDNER.
COLORING MARBLE.



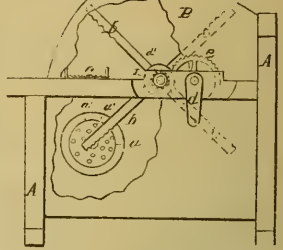
99,308, G. S. GARTH. STRAW-CUTTERS.



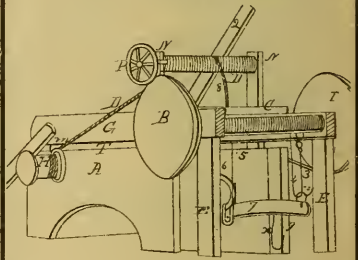
99,309, JOHN GIBBS. PUNCH AND
DIE FOR PUNCHING TUBES.



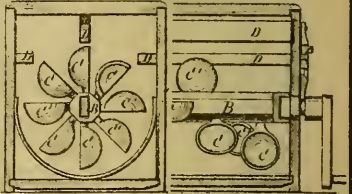
99,310, E. W. GRIFFIN.
THRESHING-MACHINE.



99,311, ALBERT GUNMER.
STUMP-EXTRACTORS.

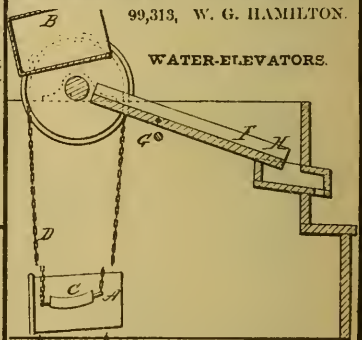


99,312, FLOYD HAMBLIN. CHURNS

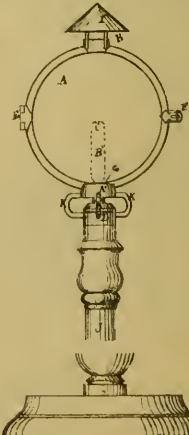


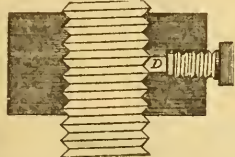
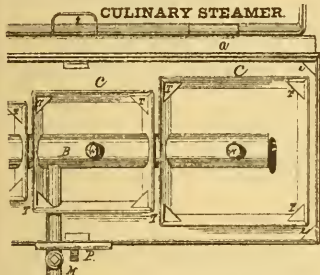
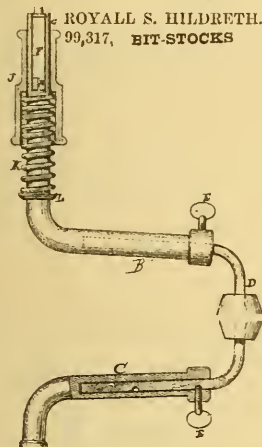
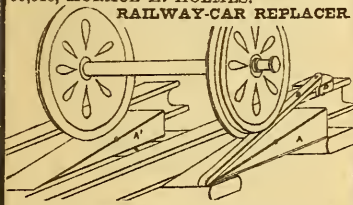
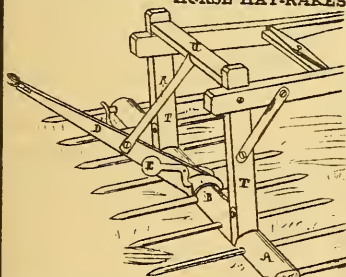
99,313, W. G. HAMILTON.

WATER-ELEVATORS.

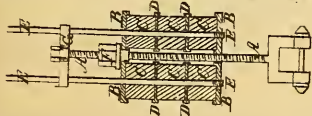
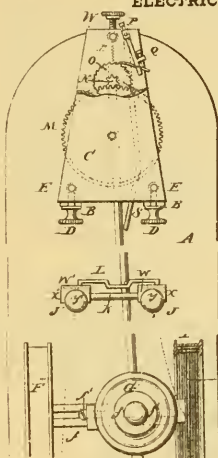
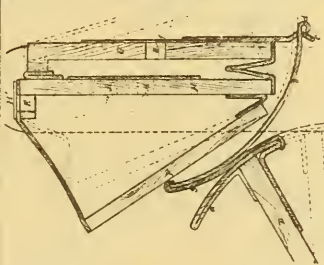
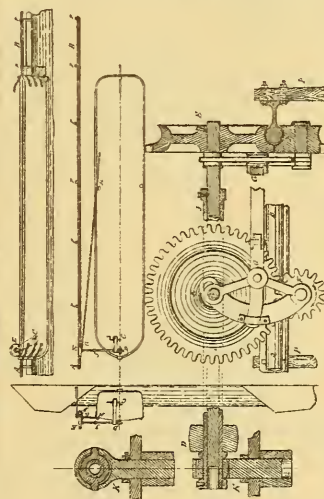


99,314, J. F. HARLY. STREET-LAMPS.

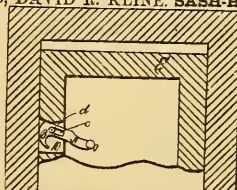
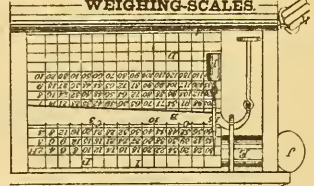
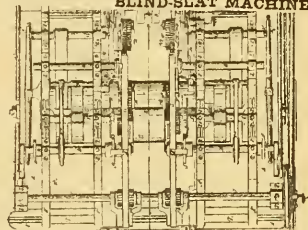


99,315, GARET G. HEERMANCE.
LOCK-NUTS.99,316, JOHN H. HERITAGE.
CULINARY STEAMER.ROYALL S. HILDRETH.
99,317, BIT-STOCKS99,318, HORACE H. HOLMES.
RAILWAY-CAR REPLACER.99,319, CHARLES HOWARD.
HORSE HAY-RAKES.

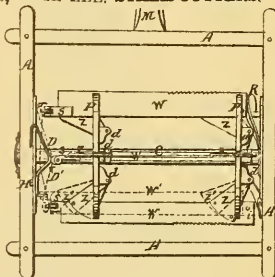
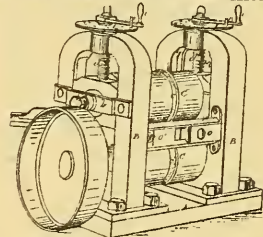
99,320, J. E. JONES. ELASTIC LANYARDS.

99,321, SAMUEL A. KENNEDY.
ELECTRIC CLOCKS.99,322, M. J. KERIGAN.
BLOWING APPARATUS FOR ORGANS.99,323, W. R. KING. MACHINE FOR
MOVING BOATS ON CANALS.99,324, WM. P. KIRKLAND.
COMPOSITION FOR THE MANUFACTURE
OF WATER GAS, AND DRAIN-PIPES.

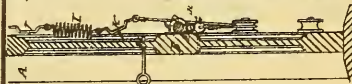
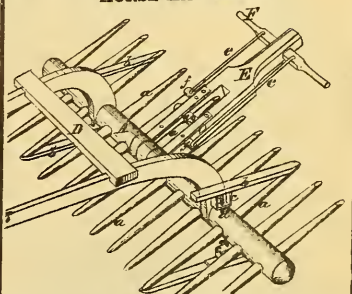
99,325, DAVID R. KLINE. SASH-HOLDER.

99,326, H. D. LATHROP.
ALBERT GAY.
COMPUTING-ARRANGEMENT FOR
WEIGHING-SCALES.99,327, FRANCOIS LECLERE.
BLIND-SLAT MACHINE.

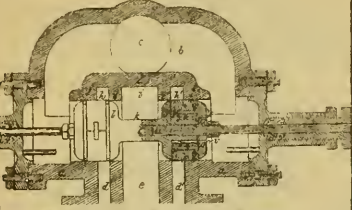
99,328, JOEL LEE. STALK-CUTTERS.

99,329, W. S. LEVAKE.
ROLLING-MILL FOR
ROLLING GROOVED METAL ARCHES.

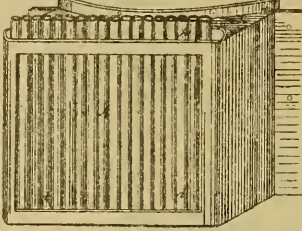
99,330, JACOB LEVY. BOLTS FOR DOORS.

99,331, WILLIAM H. LONG.
HORSE HAY-RAKES.99,332, ROBERT LOVE.
COMPOSITION FOR PAINT.

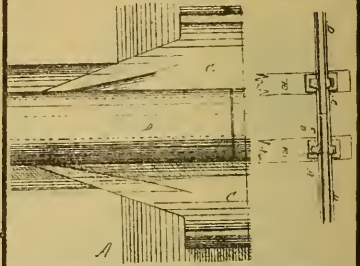
99,333, JOSEPH MARKS.
VALVE AND PISTON-PACKING



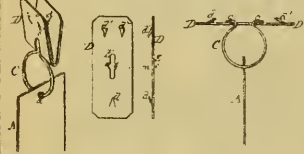
99,339, BENJAMIN NOTT.
ILLUMINATOR FOR STOVES, &c.



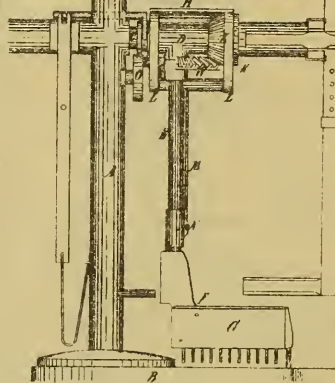
99,345, D. C. PIERCE.
RAILWAY CHAIR AND FISH JOINT.



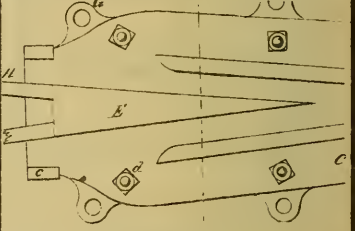
99,334 T. P. MARSTON.
TAG-ATTACHMENTS.



AARON PALMER.
99,340, CHAS. W. PALMER.
HARVESTER-RAKE.



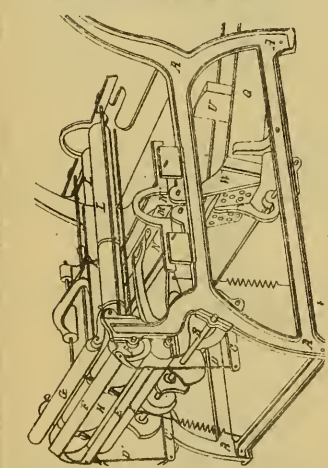
99,346, D. C. PIERCE. RAILWAY-FROG.



99,335, JACOB McCLURE.
PENCIL-SHARPENERS



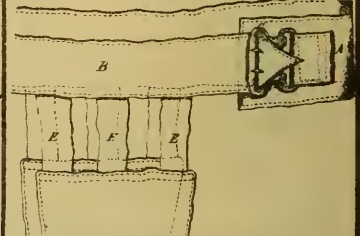
99,336, W. MENDHAM.
PAPER FOLDING MACHINE.



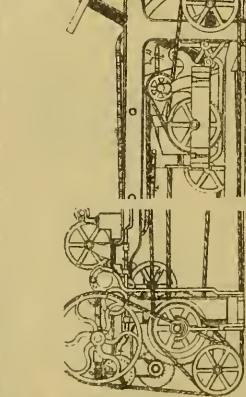
99,341, JAMES PATTERSON.
TABLE-FORKS.



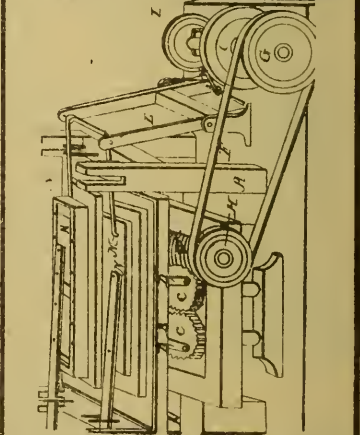
99,347, MARY G. PORTER.
LADIES' SAFETY-BELTS.



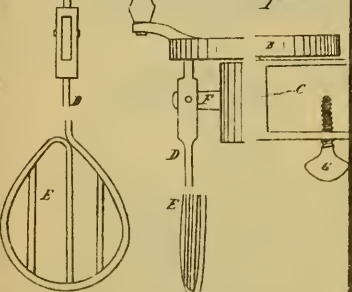
99,342, SETH D. PAUL.
SELF-ACTING MULE FOR SPINNING.



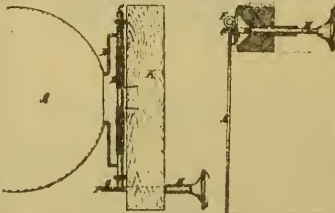
99,348, EDWIN PRICE.
E. B. PRICE.
MACHINE FOR POLISHING MARBLE.



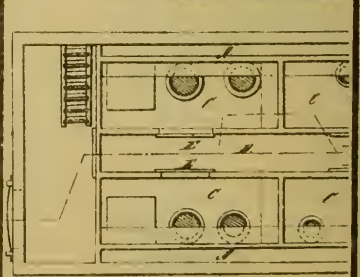
99,337, NATHANIEL C. MILLER.
EGG-BEATER.



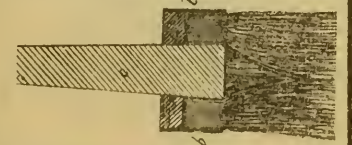
99,343, F. PEABODY. CAMERA-SCREENS.



99,349, JESSE PRIOR.
FRUIT-PRESERVING HOUSE.



99,338, GEORGE G. MORRIS.
PAINT-BRUSH.



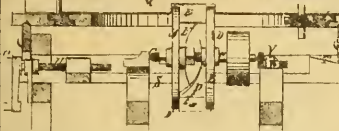
99,344, N. PEIRE.

LOCKS



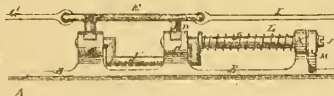
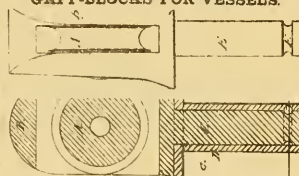
99,350.

W. G. RAUL. GROOVING-MACHINE.

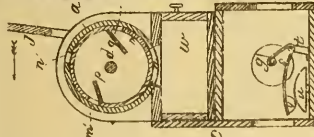


99,357. ALEXANDER SHALER.

DEVICE FOR CONNECTING HORSES TO VEHICLES.

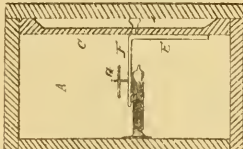
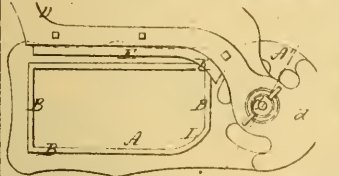
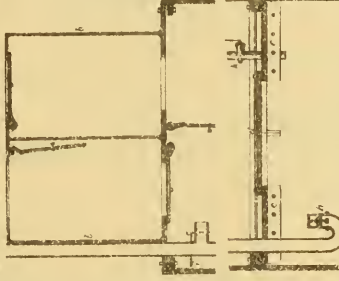
99,362. CHRISTOPHER D. SMITH.
GAFF-BLOCKS FOR VESSELS.

99,351.

W. G. RAUL.
FARE-BOXES FOR RAILROAD-CARS.

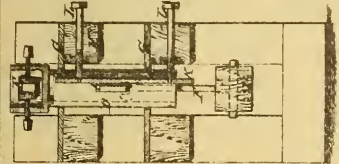
99,358. GEO. W. SHAWK.

FIRE-ALARM SIGNAL-BOXES.

99,352. WM. H. ROSSER.
JAMES STIVER.
FEED-CUTTER.99,359. T. E. SICKELS. APPARATUS FOR
SINKING PNEUMATIC PILES.

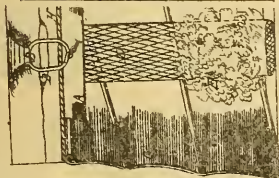
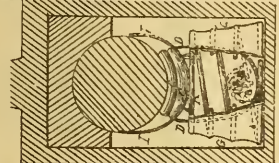
99,353. JOHN RUSSELL.

STEP-SUPPORTS FOR MILL-SPINDLES.

99,360. F. E. SICKELS. APPARATUS
FOR SINKING PNEUMATIC PILES.

99,354. THOS. SAYLES.

RAILWAY-CAR JOURNAL LUBRICATOR.

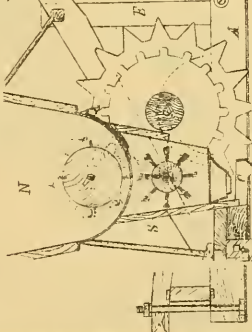


99,355. GUSTAVE SCHLUETER.

COMPOSITIONS FOR MOULDING
FROM PLASTER OF PARIS.

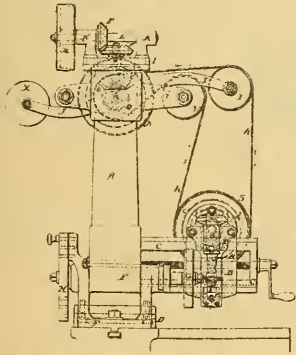
BRYAN SMITH. COTTON-SEED PLANTER.

99,361,



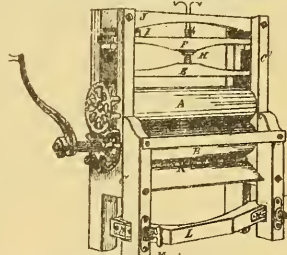
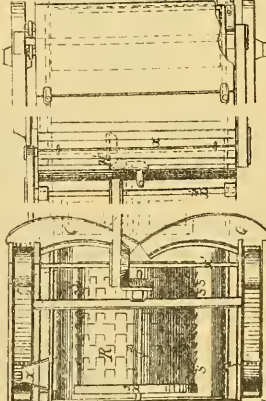
99,356. WM. SELLERS.

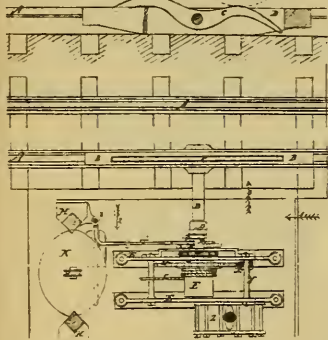
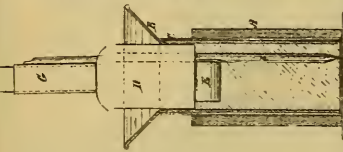
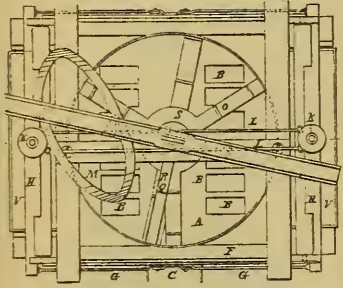
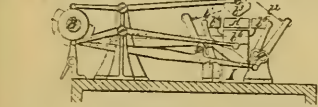
GEAR-CUTTING MACHINE.



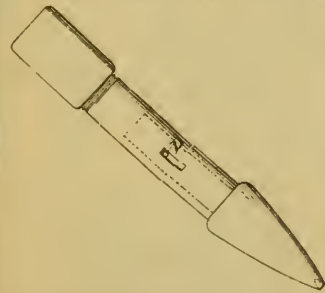
99,364. ALBERT H. SPENCER.

CLOTHES-WRINGER.

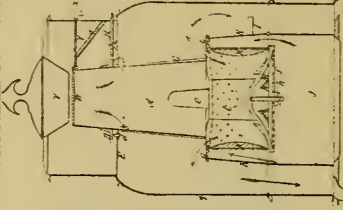
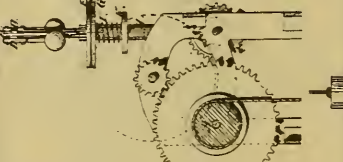
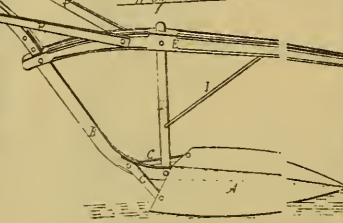
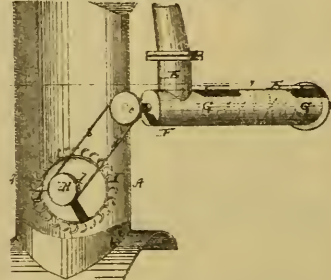
JOHN A. SPOONER. 99,365.
JOHN ELLERBY. BUTTONS.99,366. ABRAHAM STAFFER.
PETER STAFFER. THRESHING
MACHINE AND SEPARATOR.

99,367, DAVID STEWART.
MANUFACTURE OF IRON.99,368, DAVID STEWART
MANUFACTURE OF IRON99,369, ARTHUR A. STIVENDER.
RAILWAY WATER-ELEVATOR99,370, JNO. REID SUTTON.
RAMMER FOR PACKING TOBACCO.99,371, H. D. THORP. BRICK-MACHINES.
J. G. LEHP99,372, JOHN H. TROWBRIDGE.
MACHINE FOR PACKING TOBACCO

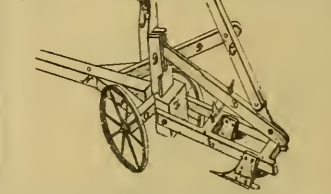
99,373, ISAAC TRUMP. DRIVEN WELLS.



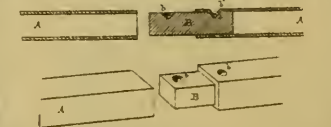
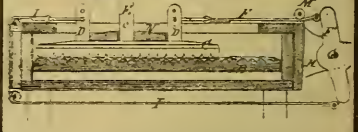
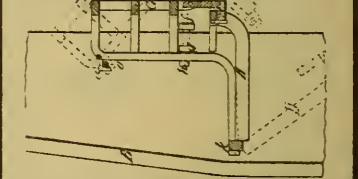
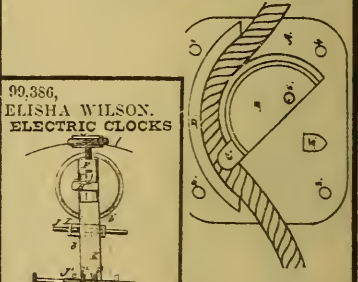
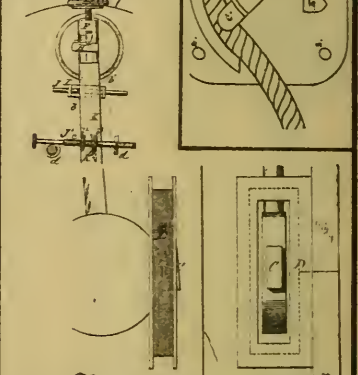
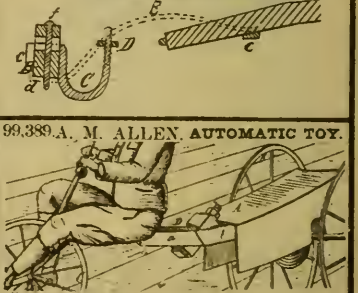
99,374, B. W. TUTTLE. WATER-WHEELS.

99,375, HENRY B. VAN BENTHUYSEN.
BASE-BURNING STOVE.99,376, THEODORE C. VAN WYCK.
WILLIAM KENT.
REGULATOR FOR MACHINERY.99,377, WILLIAM WATKINS.
SUBSOIL-PLOW99,378, EDWARD WAUD.
SPARK-ARRESTERS

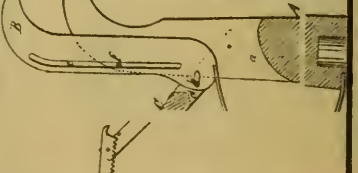
99,379, SAMUEL WELCH. GANG-PLOWS.

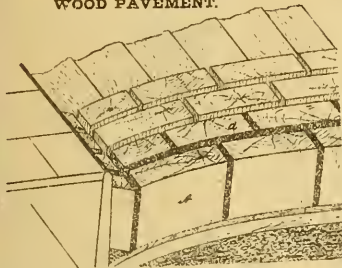
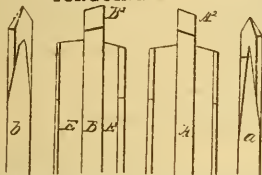
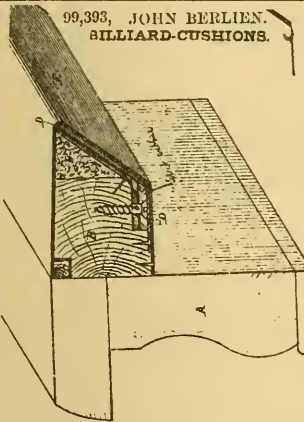
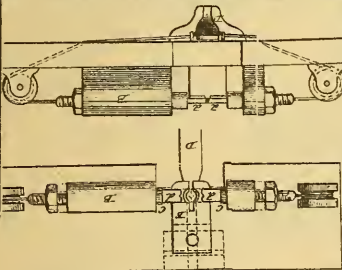
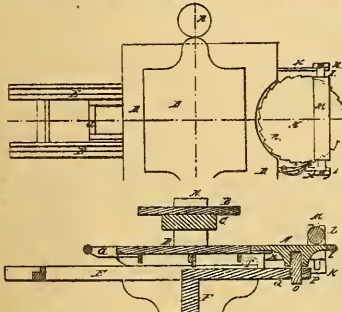
99,380, MRS. MARY W. WELTY.
SHIELD FOR SEWING-MACHINES.

99,381, J. D. WEST. LIGHTNING-RODS.

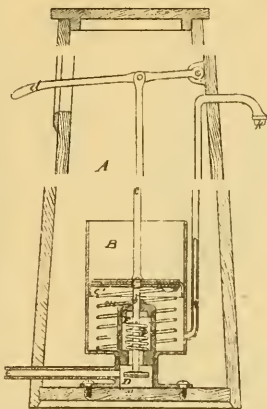
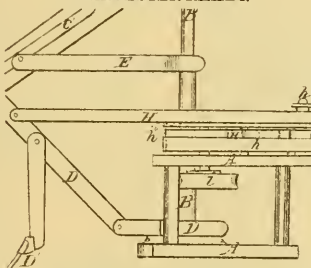
99,382, EZRA B. WESTFALL.
RAILROAD SIGNAL-BOXES.99,383, LINTON WHARTON.
WASHING-MACHINE99,384, WILLIAM E. WHITEHURST.
FIRE-PLACE GRATES99,385, GEO. W. WILBAR.
CLOTHES-LINE CLAMP.99,386, ELISHA WILSON.
ELECTRIC CLOCKS99,387, GEO. W. ADLER. COMPOUND FOR
BATING AND RAISING HIDES.99,388, ISAAC ALBRIGHT, JR.
JOEL Y. BLOOMINGDALE
WAGON-TONGUE SUPPORTS

99,389, A. M. ALLEN. AUTOMATIC TOY.

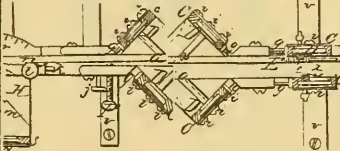
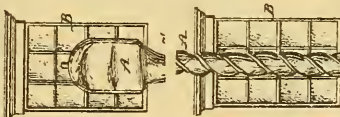
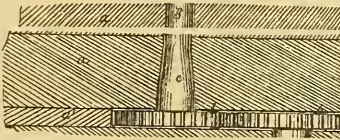
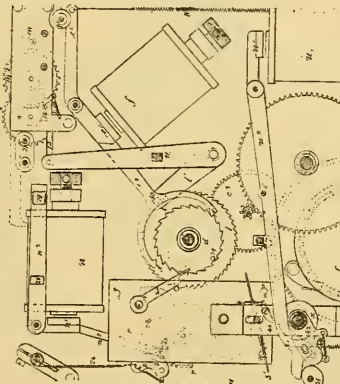
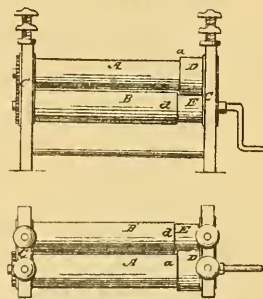
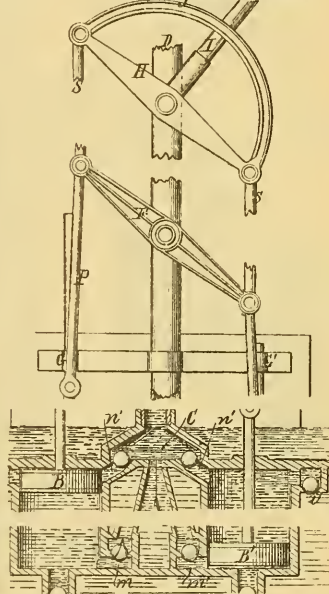
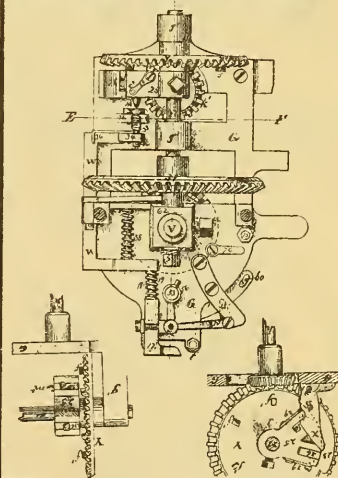
99,390, HENRY ALTER.
PRUNING-KNIFE.

99,391, WILLIAM W. BALLARD.
WOOD PAVEMENT.99,392, E. F. BEUGLER. TOOLS FOR
TONGUING AND GROOVING.99,393, JOHN BERLIEN.
BILLIARD-CUSHIONS.99,394, WILLIAM H. BLAKE.
APPARATUS FOR CENTRING
SHANKS OR EYES IN BUTTONS.99,395, T. W. BRACHER.
PRINTING-PRESSES.

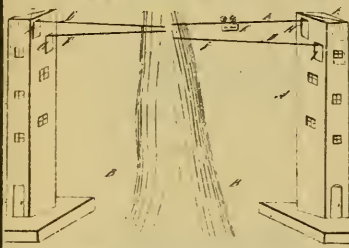
99,396, TIMOTHY C. BRIDE. HYDRANTS.

99,397, CYRUS BUCKWALTER.
HARVESTER-RAKES.

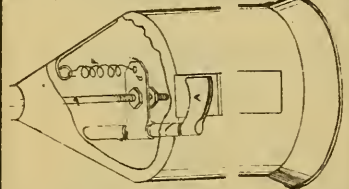
99,398, JOHN BULLARD. MITRE-BOX.

99,399, WILLIAM BURDITT FIRE-ESCAPE.
GEORGE H. BURDITT.99,400, A. G. BURTON.
LOCK-SPINDLES FOR SAFES99,401, E. A. CALLAHAN.
PRINTING TELEGRAPH.99,402, M. M. CAMP. MACHINE
FOR FORMING SHEET-METAL TUBING.99,403, PERRIN H. CARDWELL.
SUBMERGED PUMPS.99,404, G. W. CHANDLER.
APPARATUS FOR BINDING GRAIN.99,405, JOHN P. CHANDLER.
CARRIAGE-HUB.

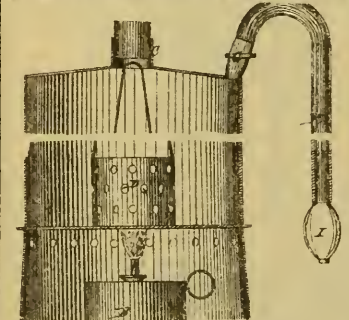
99,406, ROBT. A. CHESBROUGH.
METHOD OF AERIAL TRANSIT.



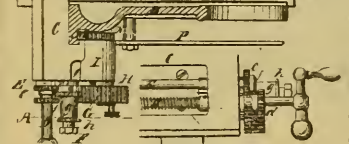
99,407, P. C. CLARK. OIL-CANS



99,408, J. C. COOK. APPARATUS FOR
ADMINISTERING MEDICATED VAPORS.



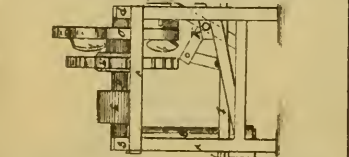
99,409, ALFRED B. COUCH.
MACHINE FOR PLANING IRON.



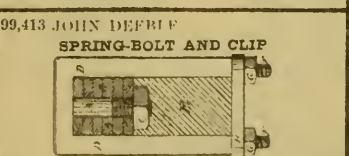
99,410, E. T. COVELL.
SOLDERING-MACHINES.



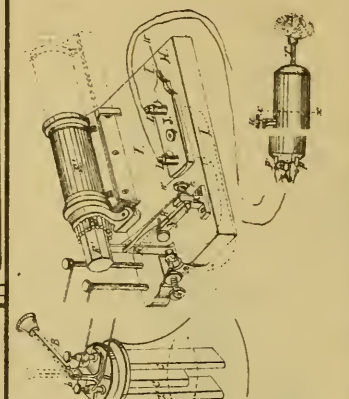
99,411 HARRY A. CROSSLEY. MACHINE
FOR JOINTING BARREL-STAVES.



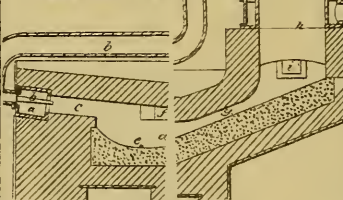
99,412, FREDERICK CURTIS.
WATER-PROOF STOCKING.



99,414, LUIS DRESCHER.
ELECTRO-MAGNETIC
MACHINES FOR MEDICAL PURPOSES



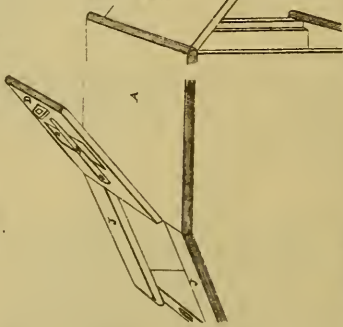
99,415 ADOLPH FABER DU FAUR.
FURNACE FOR MELTING AND
REFINING IRON AND
OTHER METALS.



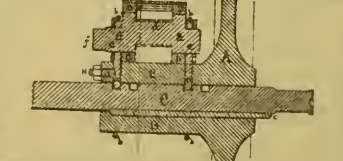
99,416 THEODORE R. DUNHAM.
CLASP FOR TRUNKS.



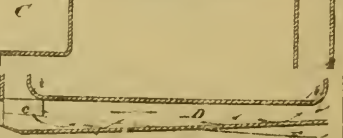
99,417,
C. W. EASTWOOD
MILK-BOX



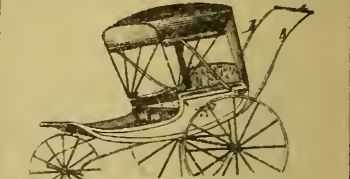
99,418 RICHARD EATON.
ADJUSTMENT OF WHEELS
ON THE AXLES OF RAILWAY-CARS



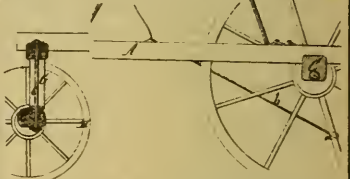
99,419, GEO. M. ECKERT.
COOKING-STOVE



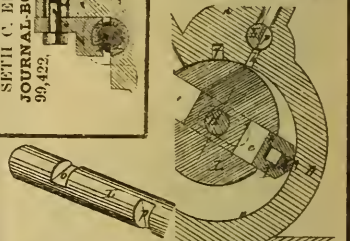
99,420, R. G. ELDER.
HANDLE FOR CHILDREN'S CARRIAGES.



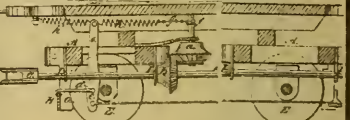
99,421, R. G. ELDER.
FOUR-WHEEL PROPELLER.



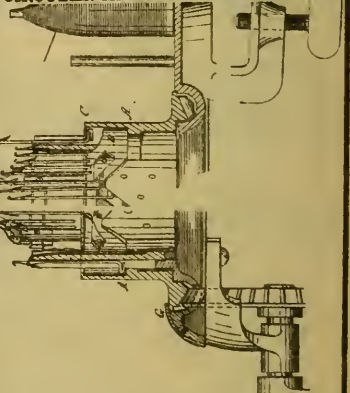
W FITZGERALD.
VALVES OF ROTARY
99,423, ENGINES.



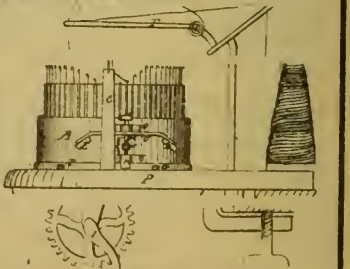
99,424, WILLIAM G. FOSTER.
RAILWAY-CAR BRAKE.



99,425. W. FRANZ AND W. POPE.
CIRCULAR KNITTING MACHINE.



99,426 W. FRANZ AND W. POPE.
KNITTING MACHINE.

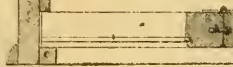


99,427, WILLIAM FREUDENAU.
MANUFACTURE OF FLOUR.

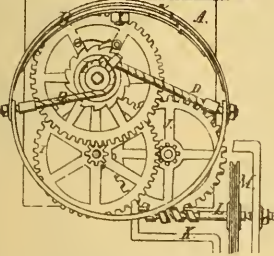
99,428, C. D. P. GIBSON. ATTACKING
THE MAIN-SPRING OF WATCHES.



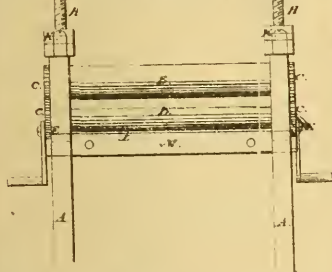
99,429, R. A. GOODYEAR.
VENTILATOR.



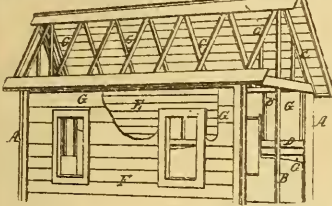
99,430, RICHARD GRIMM.
SPRING MOTOR.



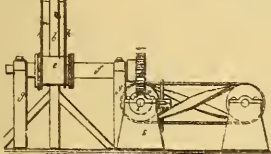
99,431, D. C. GUTTRIDGE.
LEATHER-SAMMIE.



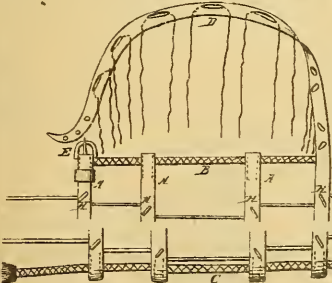
99,432, W. E. HALE.
SHEATHING-BOARDS FOR BUILDINGS.



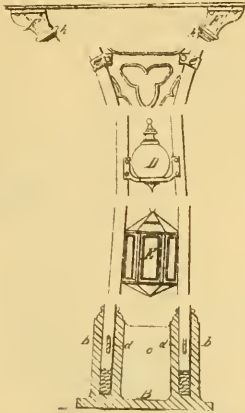
99,433, MELANCTHON HANFORD.
ELEVATOR.



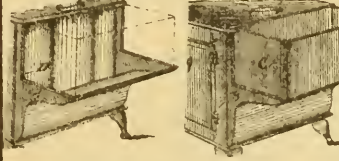
99,434, J. M. HARMAN.
FLY-NETS FOR HORSES.



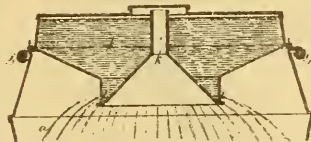
99,435, CHARLES T. HARVEY.
SUPPORTING-COLUMN
FOR ELEVATED RAILWAYS.



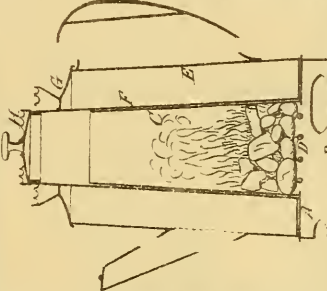
99,436, LEVI HERMANC.
COOKING-STOVE.



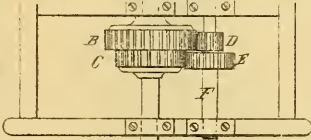
99,437, GEORGE A. HIGGINS.
CHAMBER-PAIL.



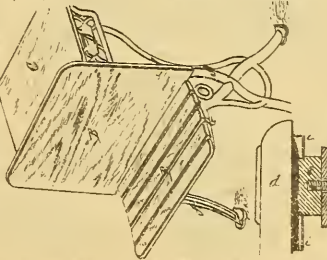
99,438, GEORGE HOTTE. COFFEE-POTS



99,439, M. G. HUBBARD.
HARVESTER-GEARING FOR CHANGING SPEED.



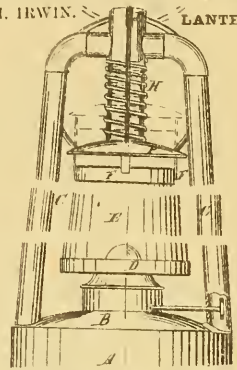
99,440, A. J. HULL. SCHOOL-DESK.



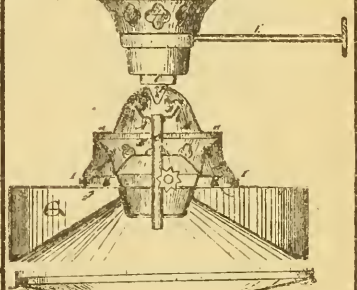
99,441, P. C. INGERSOLL. CHAIR-BOTTOM.



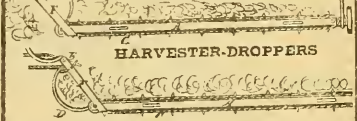
J. H. IRWIN.
99,442. LANTERNS



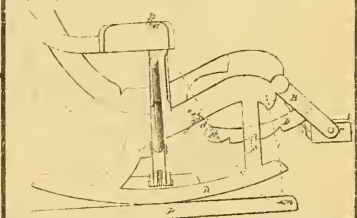
J. H. IRWIN. LAMP-BURNER.
99,443,



99,444, CYRENEUS D. JEFFRIES.



99,445, LLAU'S JENSEN. ROCKING-CHAIR.



99,446, DEDRICK JORDAN.
DOVETAILING-MACHINES.



99,447, ISRAEL LANDIS. SADDLE-TREES.

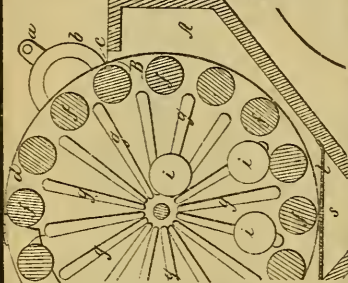
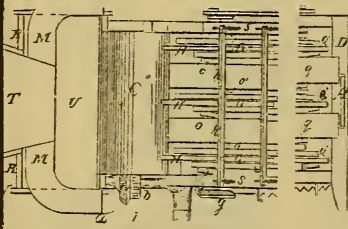
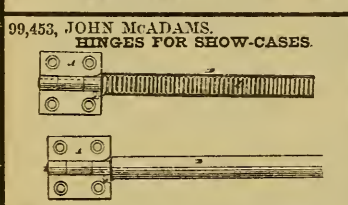
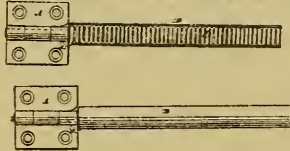
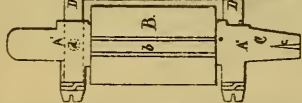
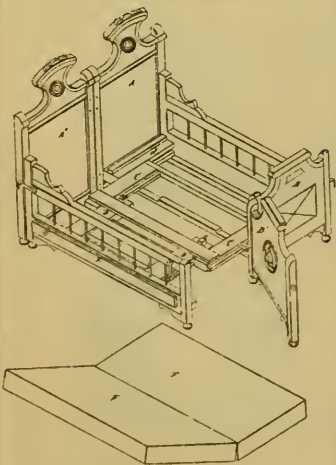
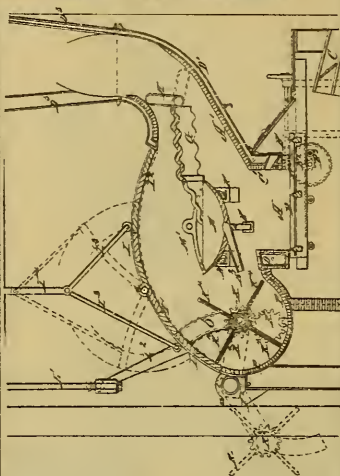
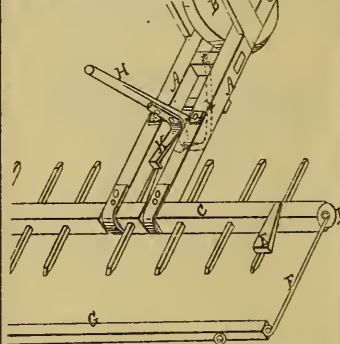
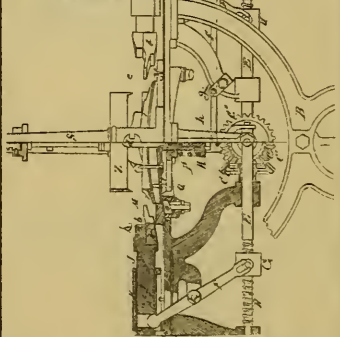
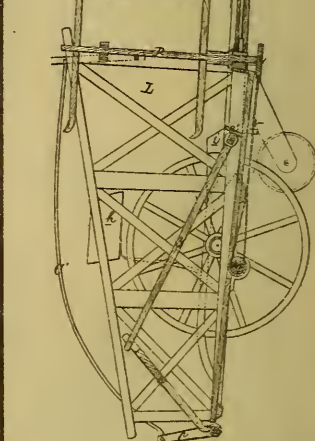
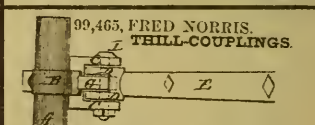
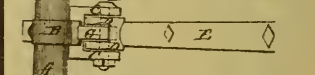
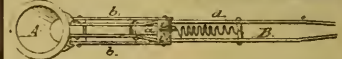
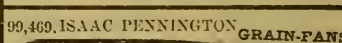


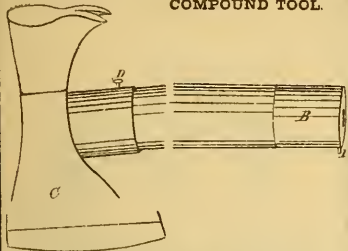
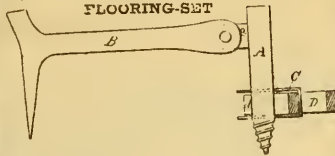
99,448, JAMES A. LEFORGEE.
SPRING-HOLDERS FOR WAGON-SEATS



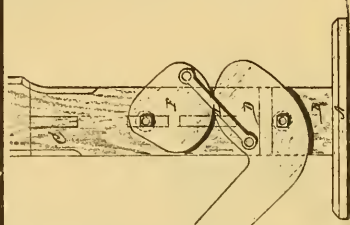
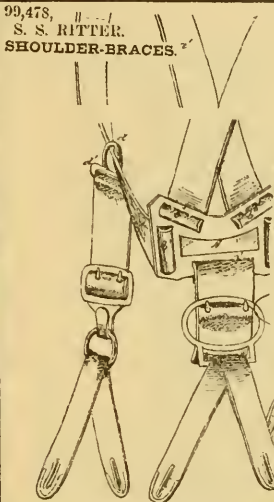
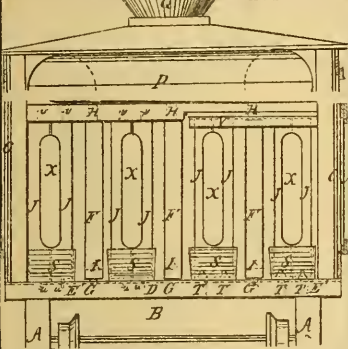
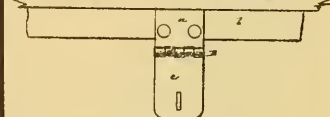
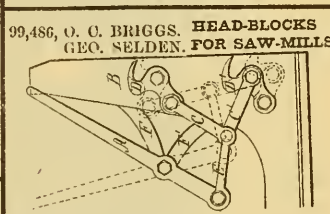
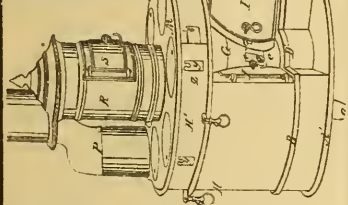
99,449, JAMES E. LOBDELL.
LEROY H. SMITH. HAY-FORKS.

99,450, PETER LOCKIE. WASHING-MACHINE.

99,451, W. R. LOW AND A. ADAMS.
HARVESTER.99,452, ORAZIO LUGO.
FERTILIZERS, OR FISH-GUANO.99,453, JOHN McADAMS.
HINGES FOR SHOW-CASES.99,454, THOS. McMAHON. COMBINED
FAUCET, MEASURE, AND FUNNEL.99,455, FREDRICK MENZER.
EXTENSION-BEDSTEAD.99,456, JAMES MONTGOMERY.
METALLURGIC FURNACE.99,457,
JOHN MORGAN,
WILLIAM CLINE, JR.
HORSE HAY-RAKES.99,458,
J. P. MORLOT.
HAT-SHAPING
MACHINES.H. B. MORRISON. STOVE-PIPE JOINTS.
99,459,99,460, D. A. MULLANE.
J. O. L. MURRAY.
DEVICE FOR HOLDING TOGETHER THE
DIFFERENT PARTS OF BUREAUS AND
OTHER ARTICLES OF FURNITURE.99,461, DAVID MUNSON.
LIGHTNING-RODS.99,462, PETER MURPHY.
PHOTOGRAPHIC-PRINTING FRAMES.WILLIAM + MURRAY.
mark.99,463, CORN-
HARVESTER.99,464, J. NEWTON.
IRA BARFIELD. MEDICAL
COMPOUND FOR CURE OF DROPSY.99,465, FRED NORRIS.
THRILL-COUPPLINGS.99,466, SUMNER PACKARD.
BOOT AND SHOE-SHAVES.99,467, C. E. PATRIC.
TEETH FOR GRAIN-DRILLS.99,468, HENRY A. PEASE.
MANUFACTURE OF SOAP.99,469, ISAAC PENNINGTON
GRAIN-FANS.

99,470, AURESTUS S. PERHAM.
COMPOUND TOOL.99,477, T. M. RICHARDSON.
FLOORING-SET

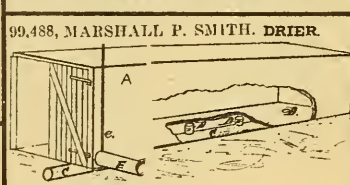
99,483, P. B. RUSSELL. WAGON-JACK.

99,478, S. S. RITTER.
SHOULDER-BRACES.99,471, CHARLES F. PIKE. RAILWAY
CATTLE-CAR.99,484, A. V. RYDER.
HASP FOR TRUNK-LOCKS99,485, JUNIUS SCHENCK.
METHOD OF PROTECTING THE ENDS
OF VULCANIZED INDIA-RUBBER OR
COMBINATION HOSE.99,472, JOSEPH F. POND. SELF-FEEDING
WOOD AND COAL
COOKING-STOVE.

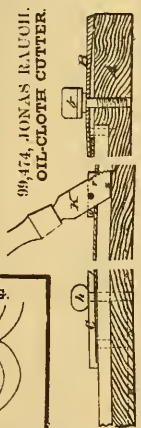
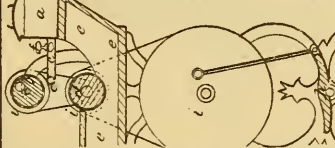
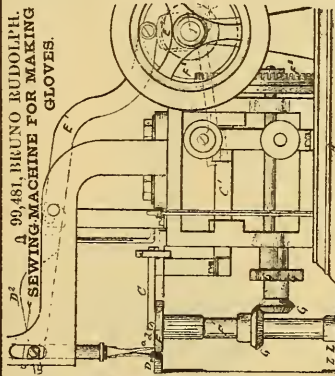
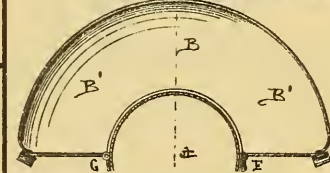
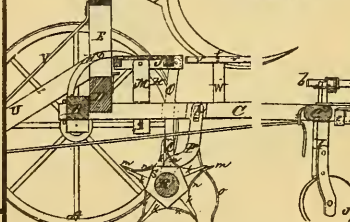
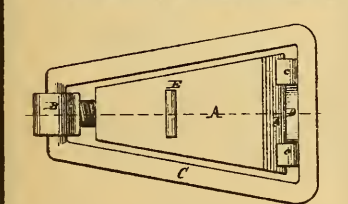
99,479. E. ROBBINS.

DECORATIVE SLAB FORMED FROM

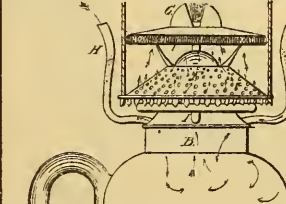
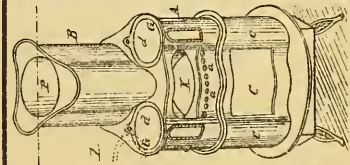
PLASTIC MATERIALS.

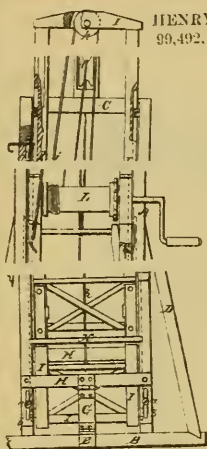
99,487, GIBSON SMITH.
COMPOUND FOR COLORING
AND PRESERVING THE HAIR.

99,488, MARSHALL P. SMITH. DRIER.

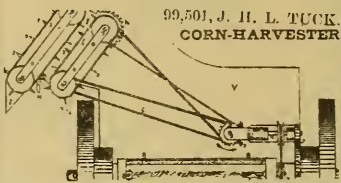
99,473, DANIEL R. PRATT.
SPRING-HEADED SCREW-BOLT.99,474, JONAS RAUCH.
OIL-CLOTH CUTTER.99,475,
F. W. RHEINLANDER.
RAILWAY-CAR SPRING.99,480, THOMAS ROBERTS.
KNIFE-CLEANING MACHINE.99,481, BRUNO RUDOLPH.
SEWING-MACHINE FOR MAKING
GLOVES.99,489, JOB SMYTHE.
CHAUNCEY DEXTER.
STOVE-PIPE SHELF.99,490, J. G. SPRAGUE. HEDGE-TRIMMER
AND STALK-CUTTER.
COMBINED99,476, JEREMIAH RHOADS. CLAMP
FOR FORMING HORSESHOE-CALKS

99,482, JAMES F. RUSSELL. LAMPS.

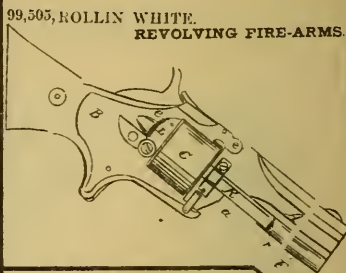
99,491, D. L. STILES.
BASE-BURNING PARLOR COOK-STOVE



HENRY SWINEFORD.
99,492. SCAFFOLDS.

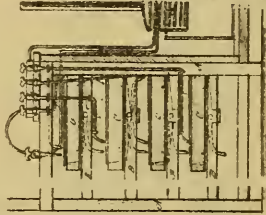


99,501, J. H. L. TUCK.
CORN-HARVESTER.



99,505, ROLLIN WHITE.
REVOLVING FIRE-ARMS.

99,502, ICHABOD E. TUTTLE.
MILK-TEMPERING AND COOLING
APPARATUS.



99,506, WM. N. WHITELEY.
RAKES FOR HARVESTERS.

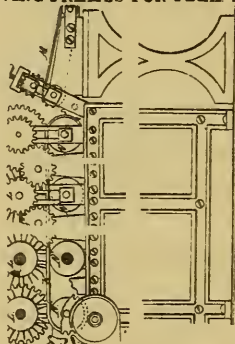


99,493, WILLM. SYKES.

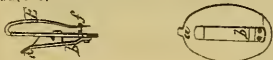
TUNNELLING RIVERS.



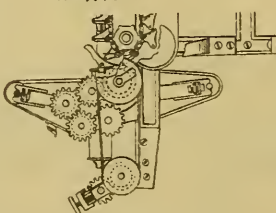
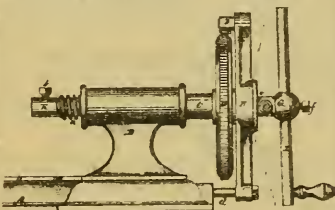
99,503, CHARLES WALL,
JOHN STEWART.
DRAWING-FRAMES FOR FLAX HEMP.



99,494, GEO. C. TAFT. TWINE-CUTTER

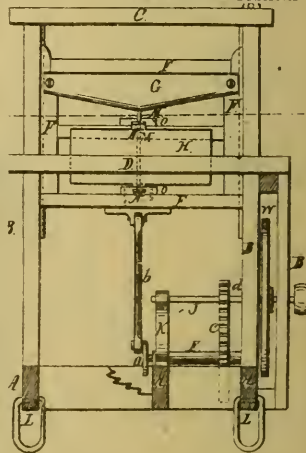


99,495, GEO. C. TAFT.
MACHINE FOR DRILLING METALS.



99,504, W. G. WARD.
BREECH-LOADING FIRE-ARMS.

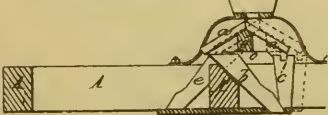
99,507, DUNHAM WILKES.
SHINGLE-MACHINE



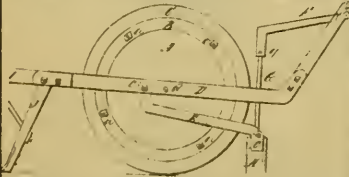
99,496, GEO. W. TALBOT.
DYES FOR COLORING WOOL.

99,497, THEODORE D. TEAL.
PAINT FOR SHIPS' BOTTOMS.

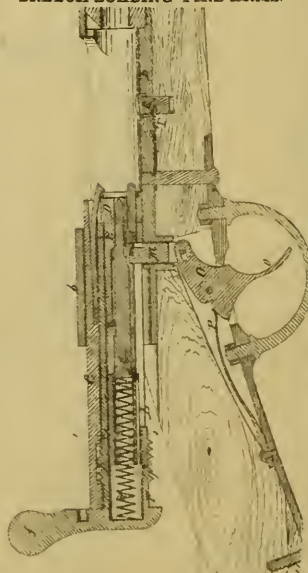
99,498, JOHN HENRY THOMAS.
SEED-SOWER.



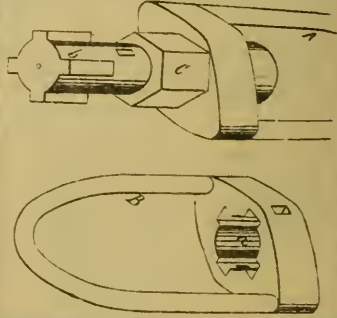
99,499, T. T. THORNE,
G. T. THORNE. COTTON-PLANTERS.



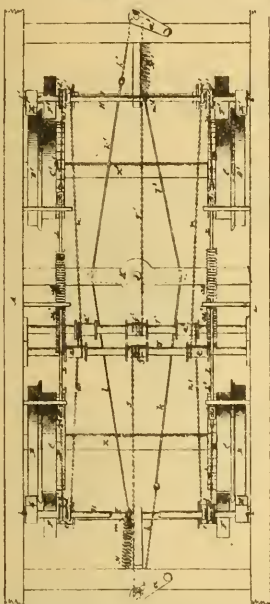
99,500, CHARLES TOPPAN.
MANUFACTURE OF OILS FROM
PETROLEUM



WILLIAM WILLIAMS.
99,508, SWIVEL-SHACKLE



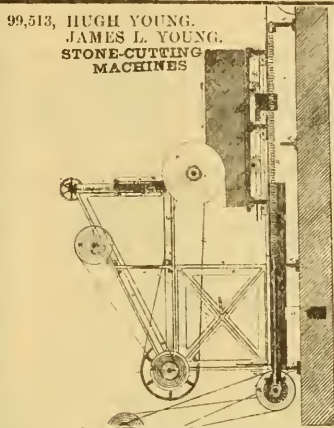
99,509, J. WALL WILSON.
CAR-BRAKE AND STARTER.



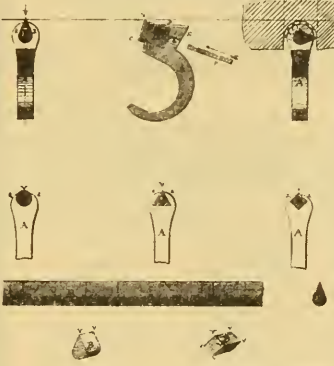
99,512, THOS. WRIGHT.
BROOM FOR STABLES.



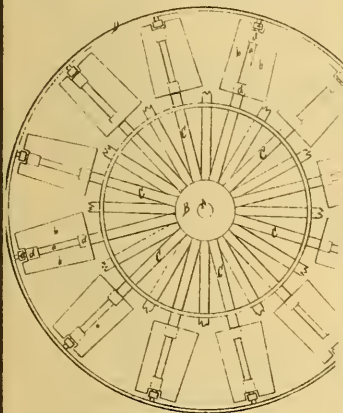
99,513, HUGH YOUNG.
JAMES L. YOUNG.
STONE-CUTTING
MACHINES



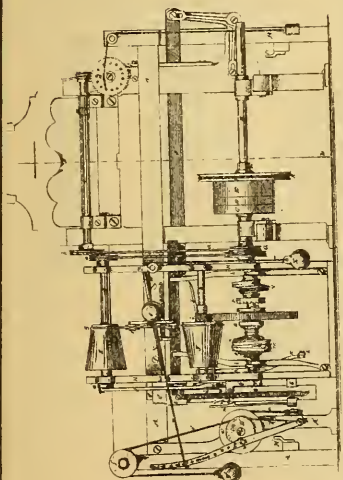
99,514, HUGH YOUNG.
JAMES L. YOUNG.
TOOL FOR CUTTING STONE.



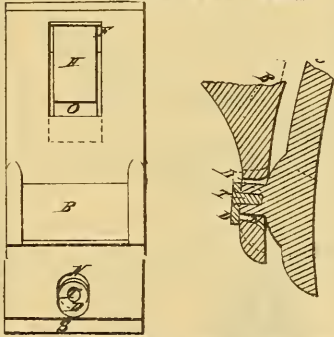
99,510, ADAM WINGARD.
PADDLE-WHEELS.



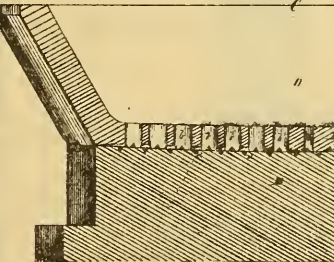
99,511, EDWARD WRIGHT.
SELF-ACTING MULES FOR SPINNING.



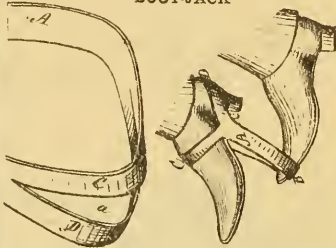
99,515, ED. H. ZITZMAN.
RAILWAY-BRAKE SHOE.



99,516, F. E. SESSIONS.
SAMUEL A. KNOX.
MOULD-BOARD FOR PLOWS.



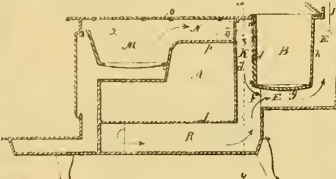
99,517, CHARLES BROWN
BOOT-JACK



3,813, D. R. AVERILL.
VARNISHES.

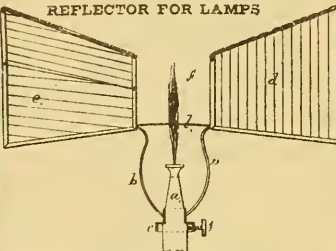
3,814, D. R. AVERILL.
THE MANUFACTURE OF VARNISHES.

3,815, ENOK BUSSEY.
COOKING-STOVE

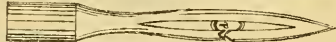


3,816, N. C. RUSSELL.
TREATMENT OF LEATHER.

3,817 WM. G. SCHMIDLIN.
J. W. DRISCOLL.
REFLECTOR FOR LAMPS



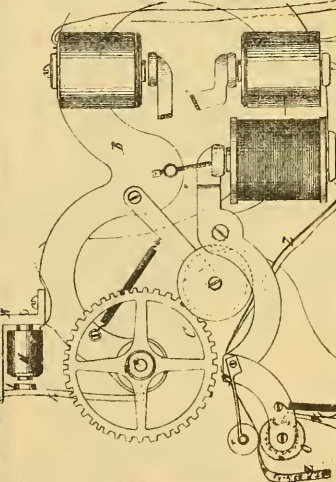
3,818, MRS. HANNAH G. SUPLEE.
NEEDLE FOR SEWING-MACHINES.



3,819, HANNAH G. SUPLEE.
NEEDLE FOR SEWING-MACHINES.



3,820, GEO. B. FIELD,
H. L. HOTCHKISS
PRINTING-TELEGRAPHS.



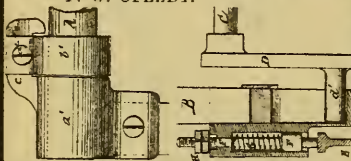
ILLUSTRATIONS OF PATENTS

ISSUED FROM

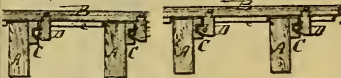
THE UNITED STATES PATENT OFFICE

FEBRUARY 8, 1870.

99,518. A. W. ALMQVIST. VALVE-GEAR.
F. W. OFELDT.



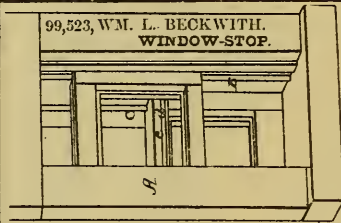
99,522, WILLIAM BAUM. FLOORING.



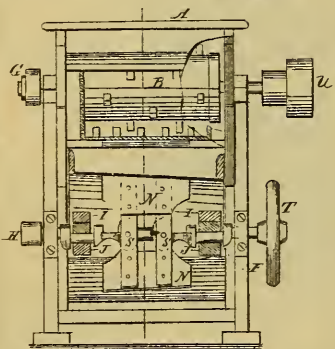
99,529, ESEK BUSSEY WATER-
RESERVOIR FOR COOKING-STOVES.



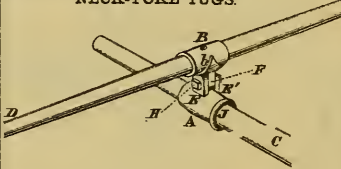
99,523, WM. L. BECKWITH.
WINDOW-STOP.



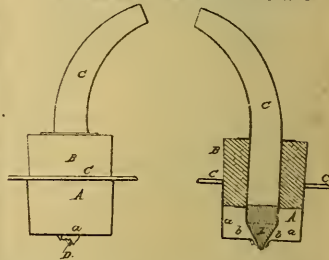
99,519, BENJA. AYARS. **THRESHING
-MACHINES.**



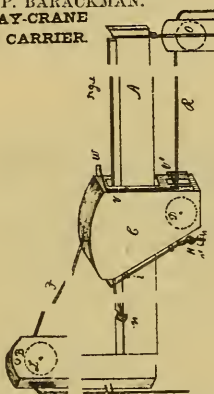
99,524, GEORGE BENNETT.
NECK-YOKE TUGS.



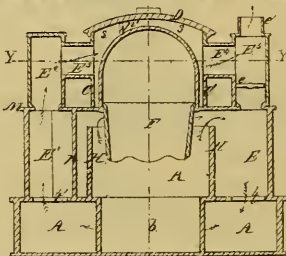
99,530, ALEXANDER CAMPBELL.
PUNCTURING AND TUBULAR
STOPPERS FOR SEALED CANS





99,520, B. P. BARACKMAN.
HAY-CRANE
OR CARRIER.



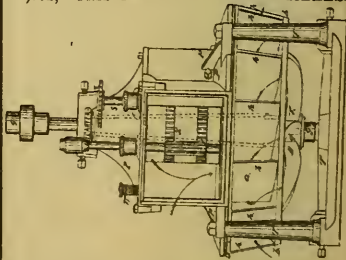
99,525, BENTLEY C. BIBB.
PHILIP KLOTZ.
BASE-BURNING FIRE-PLACE HEATER



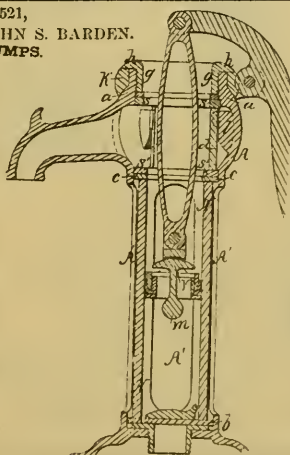
HIRAM CARPENTER. RAILWAYS
99,531,  



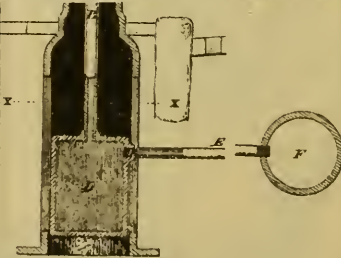
99,532. IRA CARTER. WATER-WHEELS.



99,521,
JOHN S. BARDEN.
PUMPS.



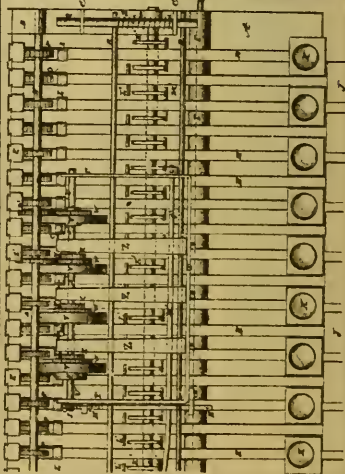
99,527,GEORGE C. BOVEY.
SEDIMENT-CHAMBER FOR LAMP-POSTS



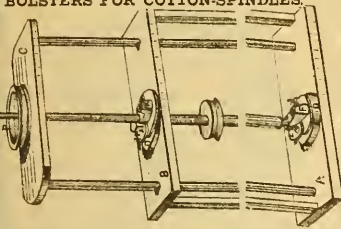
99,528. F E. BOYD.
CARTRIDGE.



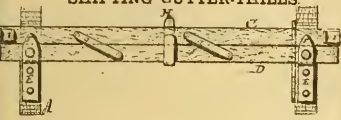
99,533. GILBERT W. CHAPIN.
ADDING-MACHINE.



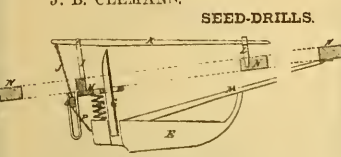
99,534, C. H. CHAPMAN. STEPS AND BOLSTERS FOR COTTON-SPINDLES.



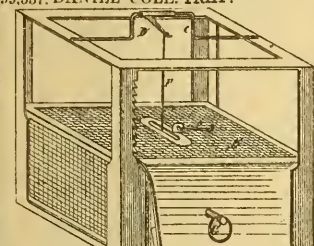
99,535, L. S. CLARK. SHIFTING CUTTER-THILLS.



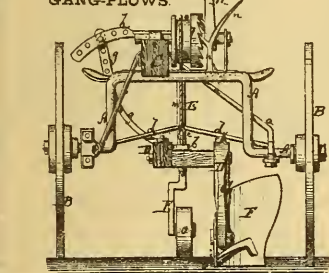
99,536, J. B. CLEMANS. SEED-DRILLS.



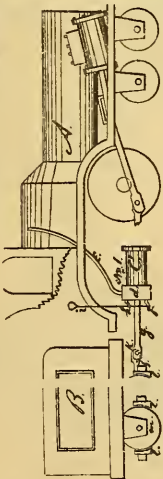
99,537, DANIEL COLE. TRAP.



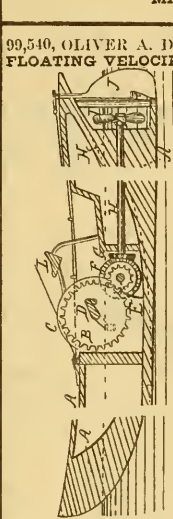
99,538, JOHN COX. SOLOMON COX. GANG-FLOWS.



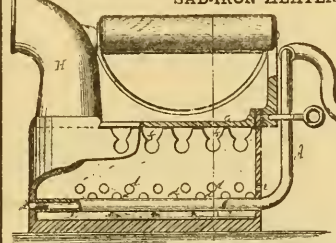
99,539, JAY M. CROSBY. WILLIAM BALLARD. RAILWAY-CAR BRAKES.



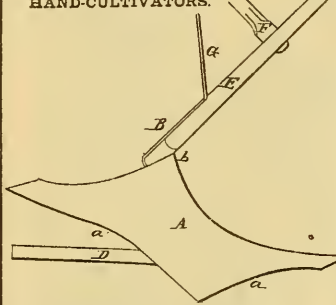
99,541, R. D'HEUREUSE. MALTING GRAIN.



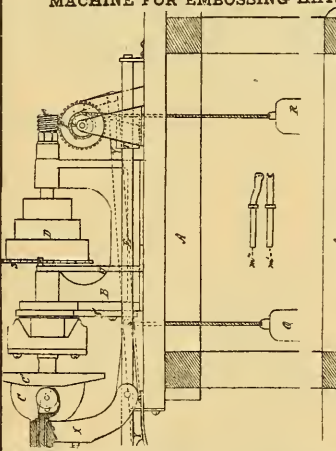
99,542, ROBT. DRAKE. SAD-IRON HEATERS.



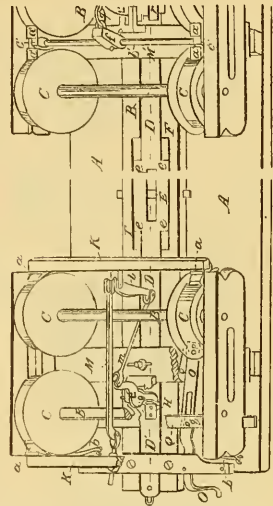
99,543, LEWIS DUVALL. HAND-CULTIVATORS.



99,544, R. EICKEMEYER. MACHINE FOR EMBOSsing HATS.

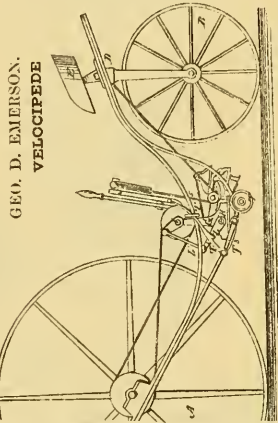


99,545, DANIEL M. ELDER. RAILWAY-CAR BRAKE.



99,546,

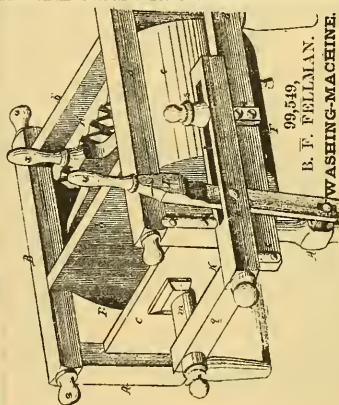
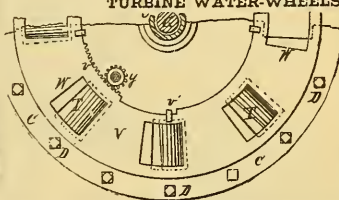
GEO. D. EMERSON. VELOCIPED.



99,547, JOHN N. FARRAR. RAILWAY-CAR WHEEL.

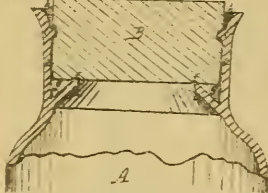
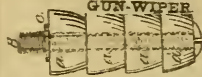
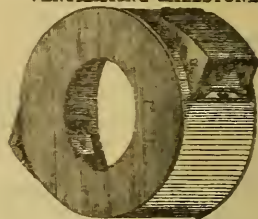
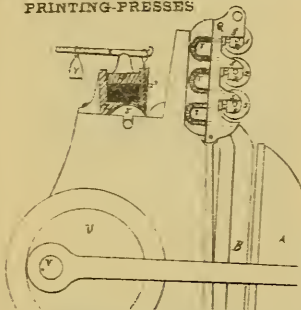
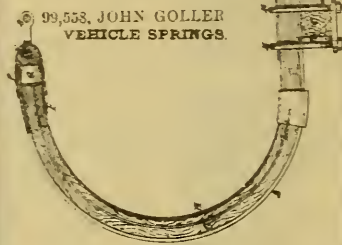
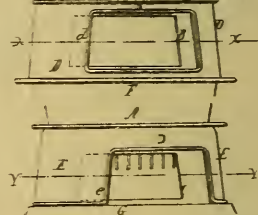
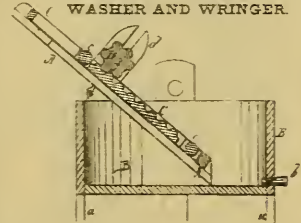
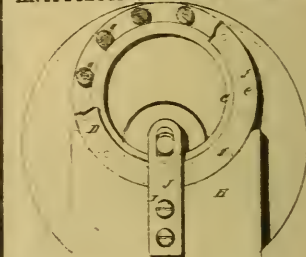


99,548, JAMES J. FAULKNER. TURBINE WATER-WHEELS.

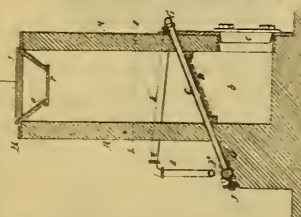


99,549, B. F. FELLMAN. WASHING-MACHINE.

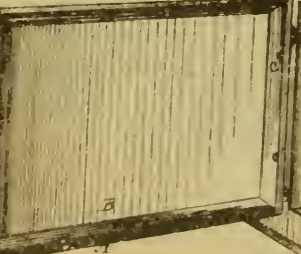
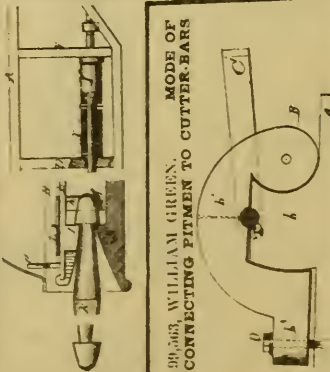
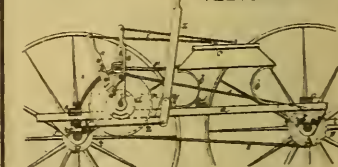
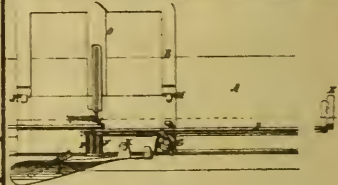
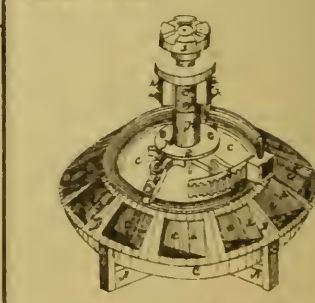
99,550, A. E. FIFE. FRUIT-JARS.

99,557, C. F. GILLETTE.
GUN-WIPER.99,564, AMOS GRUBE.
VENTILATING MILLSTONES.99,551, MERITT GALLY.
PRINTING-PRESSES.99,553, JOHN GOLLER
VEHICLE SPRINGS.99,565, CONRAD HARRIS,
PAUL W. ZOINER.
DOOR FOR CANNON STOVE.99,559, O. P. GOODMAN.
NOSE-RING FOR HOGS.99,552, DALEMBERT T. GALE.
WASHER AND WRINGER.99,560, GEORGE D. GOODSSELL.
NOYES E. BABCOCK.
CORN-STALK-CUTTING KNIFE.99,566, R. G. HATFIELD.
ANTI-FRICTION JOURNAL-BEARINGS.

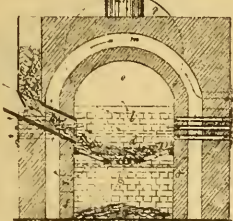
99,553, E. L. GAYLORD. TRUNK-LOCKS.

99,554, WILLIAM GERHARDT.
GAS-PRODUCING FURNACES.

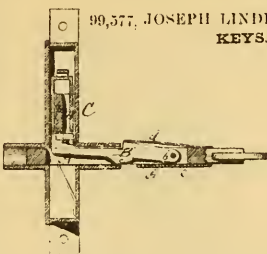
99,555, C. H. GIFFORD. HORSE-POWERS.

99,556, H. G. GILES.
FASTENING STOVE-DOOR LININGS.99,561, CALEB GOODWIN.
SCIENTIFIC PLAYING-CARDS.99,562, ROBT. GREEN.
RAILWAY-CAR COUPLING.99,567, GUSTAVUS L. HAUSKNECHT.
VELOCIPEDE.99,568, F. J. HERPERS.
M. M. SOMMER.
SHEET-MUSIC TURNER AND HOLDER.99,569, G. A. HOUSTON.
WATER WHEEL.

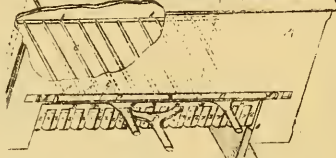
99,570. JOS. R. HOYT. FURNACES.



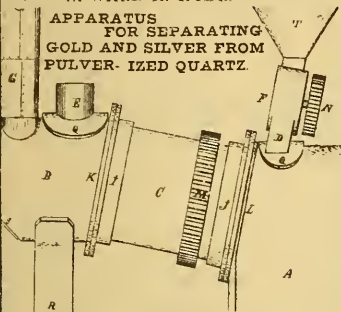
99,577. JOSEPH LINDER. KEYS.



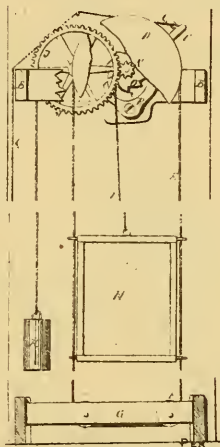
99,584. HOWELL MULFORD. GRATES.



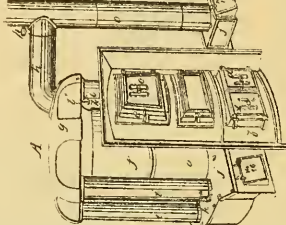
99,571. EDWARD A. HYDE. APPARATUS FOR SEPARATING GOLD AND SILVER FROM PULVERIZED QUARTZ.



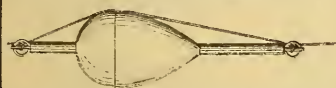
99,578. MATTHEW LYNCH. HOISTING-MACHINES.



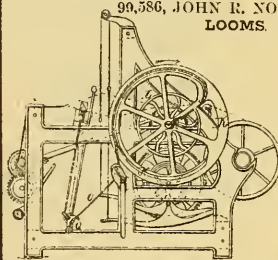
99,585. EDMUND D. NORCROSS. HOT-AIR FURNACE.



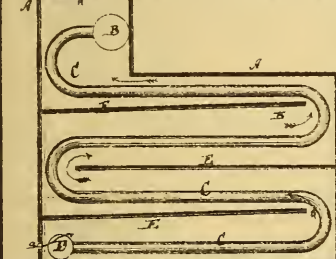
99,572. JAMES INGRAM. METHOD OF ATTACHING FLOATS AND SINKERS TO FISHING-LINES.



99,586. JOHN R. NORFOLK. LOOMS.



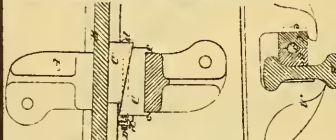
99,573. ENOS B. JOHNSON. FEED-WATER HEATER FOR STEAM-GENERATORS.



99,579. JOHN MARTINO. FENDER FOR FIRE-PLACE STOVE.



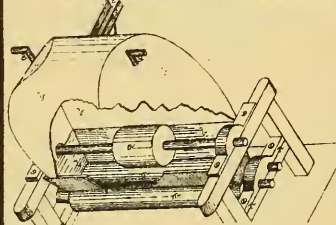
99,587. W. PALLISER. RAILWAY-RAIL FASTENING.



99,580. JOHN MARTINO. FENDER FOR FIRE-PLACE STOVE.



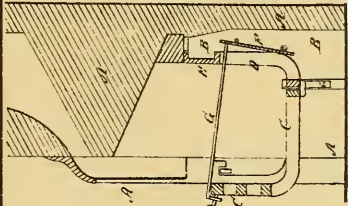
99,588. WILLIAM H. PERRY. MANUFACTURE OF IRON, AND GRANULATING THE SAME.



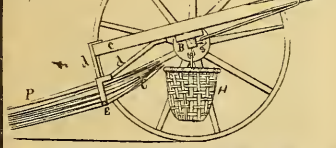
99,574. G. W. JONES. WORKING OF SCRAP AND OTHER IRON.



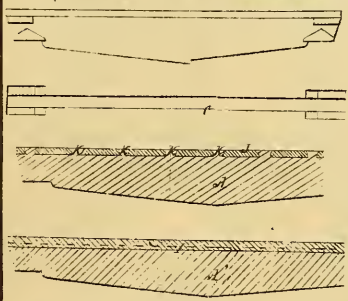
99,581. G. H. McEVEY. FIRE-PLACE GRATE.



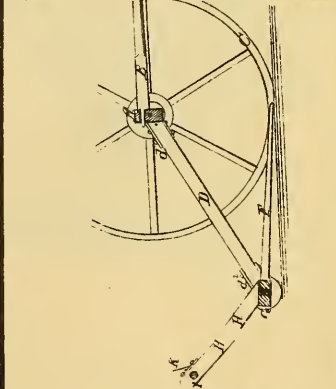
GEO. W. KNIGHT. POTATO-DIGGER. 99,575.



99,582. WM. McMONNIES. GRATE-BAR.



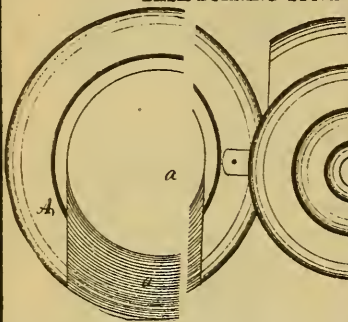
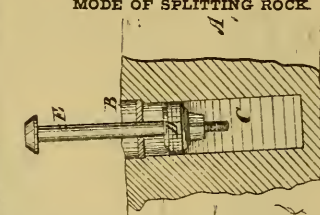
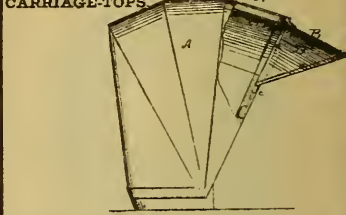
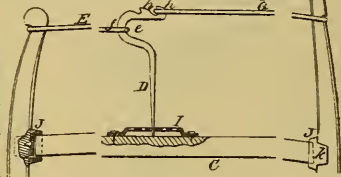
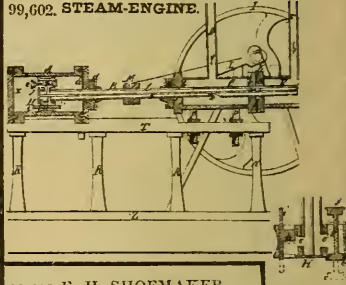
99,589. W. E. PHELPS. HAY-GATHERERS.



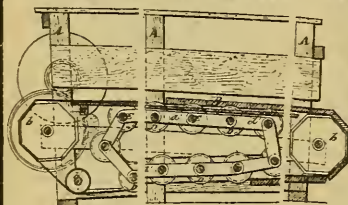
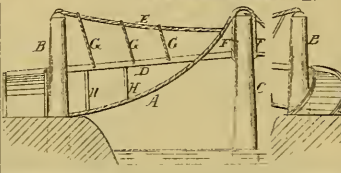
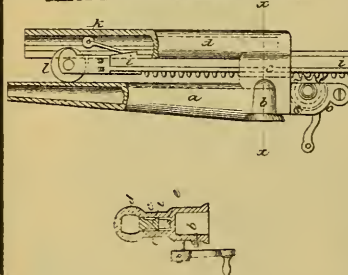
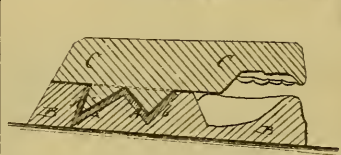
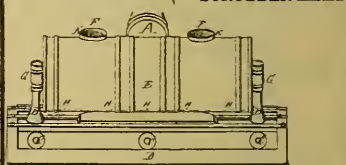
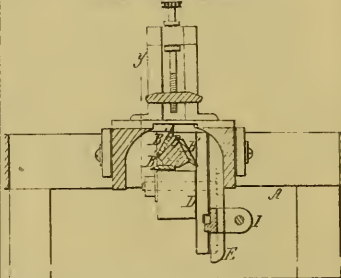
99,576. BERNHARD KOECHLING. OPERA-CHAIR.



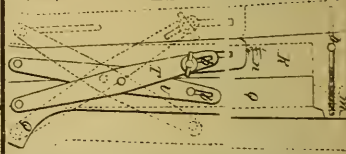
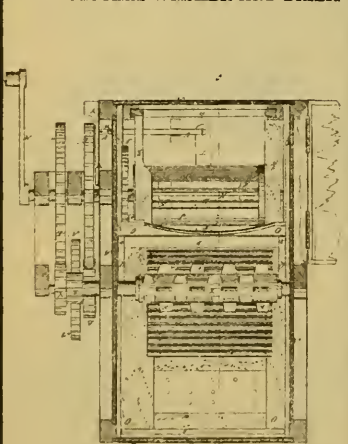
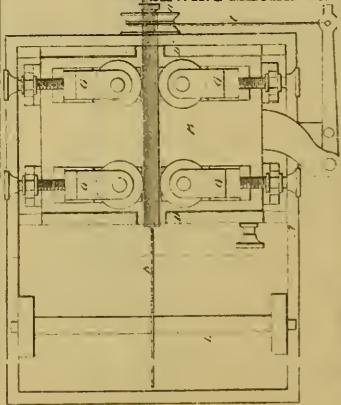
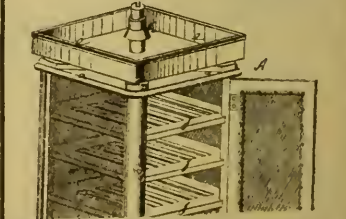
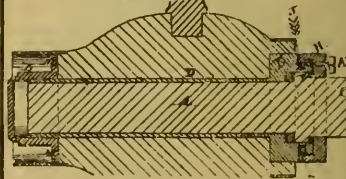
99,583. JACOB H. MORRIS. MEDICINE FOR CURE OF FEVER AND AGUE.

99,590, J. A. PRICE.
BASE-BURNING STOVE.99,595, JOHN ROBB.
MODE OF SPLITTING ROCK.99,601 WM. SCHOCH.
CARRIAGE-TOPS.99,596, THOMAS H. ROLLINS.
SAW-FRAME.PETER SHELLENBACK.
JNO. HARTON.
99,602. STEAM-ENGINE.

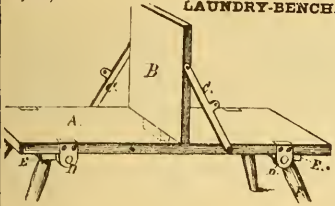
99,591, JAMES M. RAND. HORSE-POWER.

99,597, JARVIS ROYAL.
SUSPENSION-BRIDGE.99,592, C. H. RAYMOND. GROOVING-
MACHINES FOR SHEET-METAL.99,598, GEORGE F. SCHAFER.
DENTAL ARTICULATORS.99,603, E. H. SHOEMAKER.
SAMUEL MCLEERY.
MOP AND
SCRUBBER-HEAD.99,593, HIRAM M. RAYNOR.
PIN FOR ARTIFICIAL TEETH.99,599, JOHN B. SCHENCK.
PLANING-MACHINE.

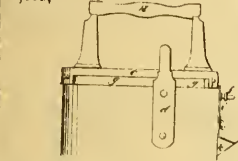
99,604, E. SHOBELL. BOOT-PATTERN.

99,605, ALFRED SHURMPTON.
NEEDLE-WRAPPERS.99,594, EDWIN REES.
CLOTHES-WASHER AND DRIER.99,600, JOHN B. SCHENCK.
SAWING-MACHINES.99,606, AUSTIN SLY.
SAML. S. FORD.
ROTARY PROVISION-SAFE.99,607, ALFRED E. SMITH.
CARRIAGE AXLE-BOXES.

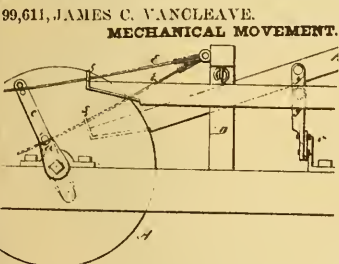
99,608, ALBERT H. SPENCER.
LAUNDRY-BENCH.



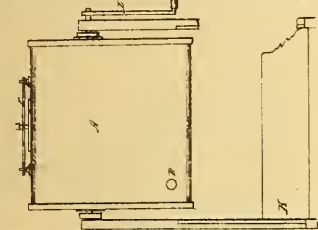
99,609, FERDINAND STADLER. SAD-IRON
HEATER.



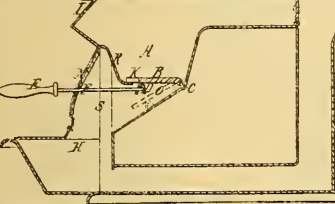
99,610, JOHN W. TULLY. COMPOSITION
OR FILLING FOR COACH-PAINTERS.



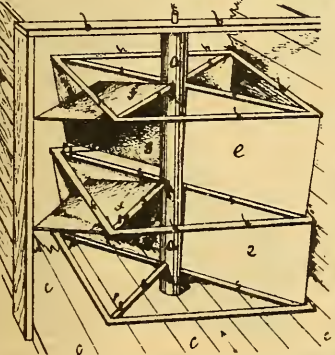
99,612, RICHARD P. WELLS. CHURNS



ALEXANDER WHITE. COOKING-STOVE.
99,613.

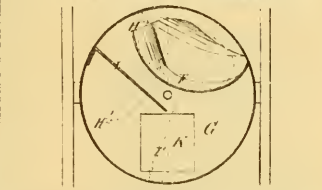


99,614, EUGENE A. WHITE.
CURRENT-WHEELS.

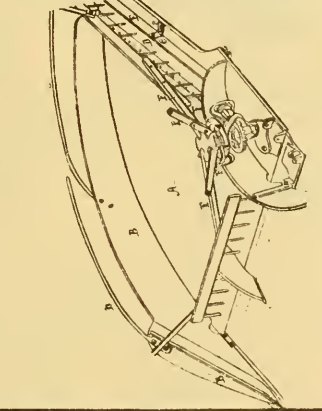


99,615, JOSEPH WOLFF. MANUFACTURE
OF YEAST FOR DISTILLERS.

99,616, W. W. WORMOOD.
FARE-BOXES FOR STREET-CARS.

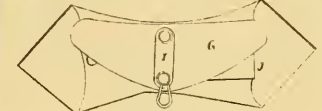


99,617, ADRIANCE AND BROWN.
GRAIN PLATFORM FOR HARVESTERS.



99,618, JOHN BARCOCK.
COMPOSITION FOR PREPARING
WOOD FOR PAINTING.

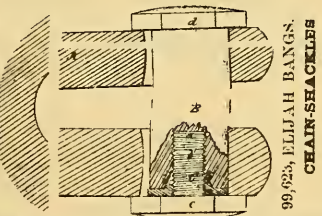
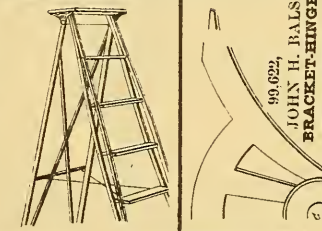
99,619, JOHN BACHELDER. NECKTIES.



99,620, FRANCIS R. BAIRD.
HASP-FASTENINGS FOR FRUIT-CRATES.



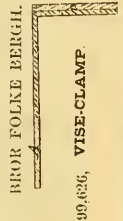
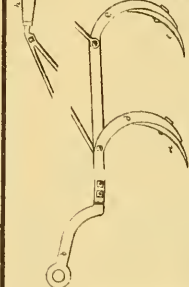
99,621, JOHN H. BALSLEY.
STEP-LADDERS.



99,622, JOHN H. BALSLEY.
BRACKET-HINGE
FOR LADDERS.

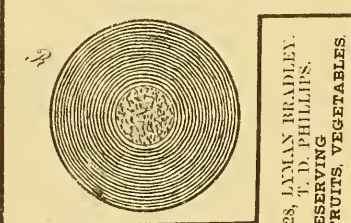
99,624, JULIUS BAUR.
MANUFACTURE OF STEEL.

99,625, D. G. BENNER.
CULTIVATORS.

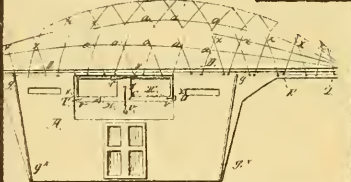


99,626,
VISE-CLAMP.

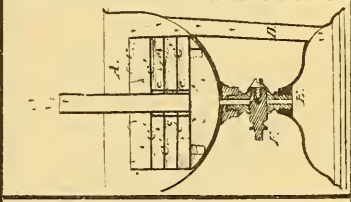
99,627, WILLIAM BESCHKE.
PACKING
FOR STEAM-ENGINES, PUMPS, &c.



99,629, MARTIN BRAUN.
AERIAL SHIPS.



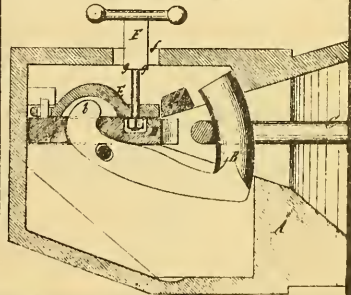
99,630, JOHN C. BREWSTER.
AMALGAMATOR.



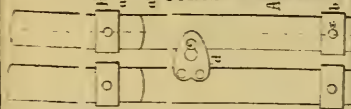
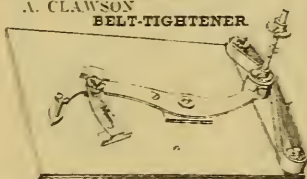
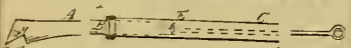
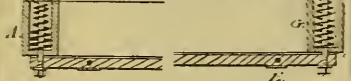
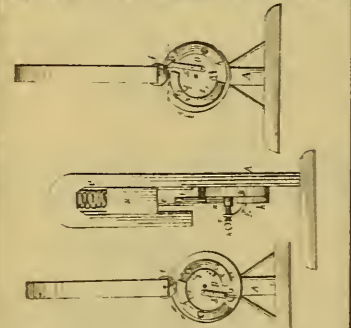
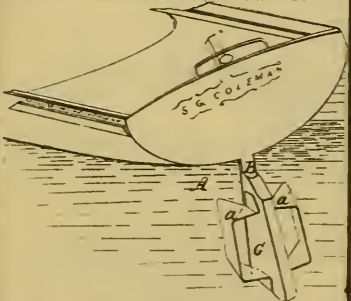
99,631, ANDREW BROWN. BASE FOR
SUMMER-PIECES AND GRATE-FRAMES



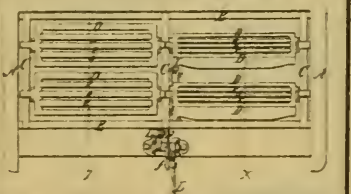
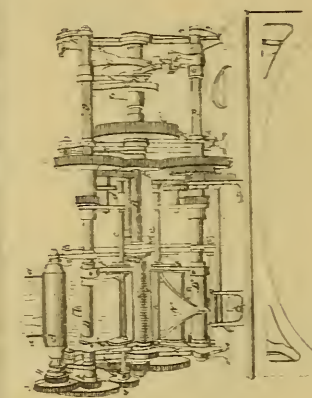
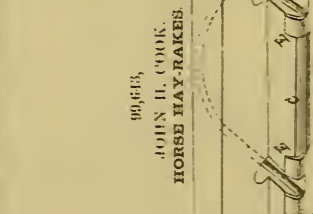
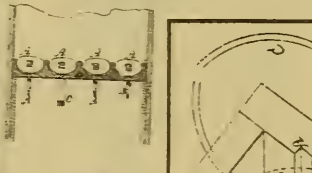
99,632, LEOPOLD F. BUSCHMANN.
RAILWAY-CAR COUPLING.



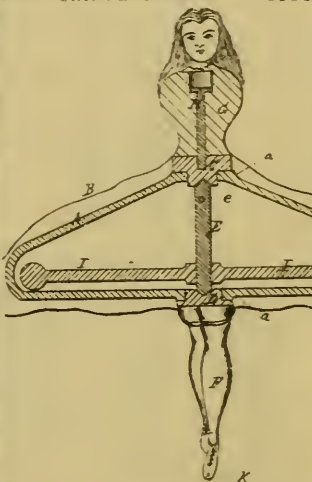
99,628, LYMAN BRADLEY.
T. D. PHILLIPS.
PRESERVING
FRUITS, VEGETABLES.

99,633. W. B. CARGILL.
CORSET-FASTENINGS99,634. M. C. CHAMBERLIN.
A. CLAWSON
BELT-TIGHTENER99,635. RICH'D. H. CHINN.
FOUNTAIN-PENS99,636. I. A. CLIPPINGER.
SAMUEL S. PRATT BED-BOTTOM99,637. FRANCOIS COIGNET.
TREATING ARGILLACEOUS
LIMESTONES TO OBTAIN HYDRAULIC
CEMENT &c.99,638. COLUMBUS COLEMAN.
MACHINE FOR BENDING RAKE-TEETH99,639. STEPHEN G. COLEMAN.
RUDDERS FOR VESSELS

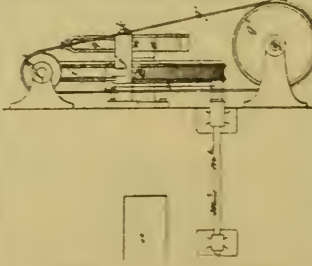
99,640. H. COLLINSON GRATE BAR

99,641. HIZKELAH CONANT.
MACHINES FOR COMBING COTTON99,642. J. CONE. FURNACE GRATE-BAR
WM. K. KELLY.

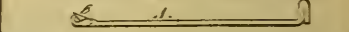
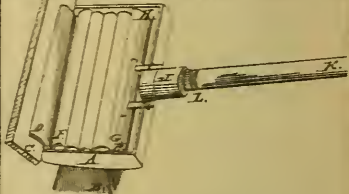
99,644. CHAS. L. COOMBS. TOYS.



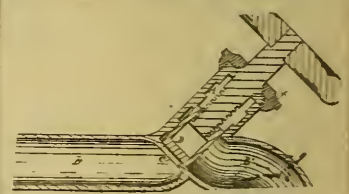
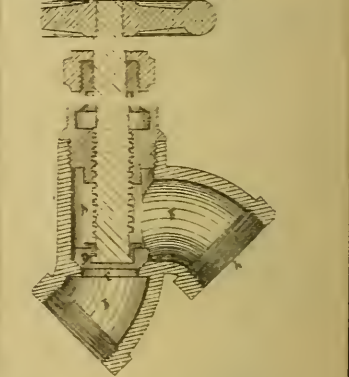
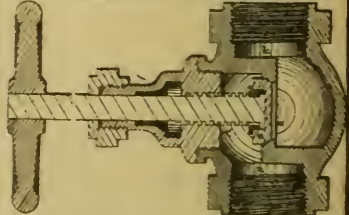
99,645. ALEXANDER CRUMBIE. OVEN



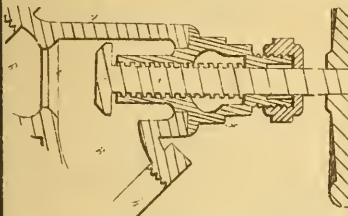
99,646. JAS. CURRAN. FIRE-PLUGS.

99,647. JOHN F. DANIELS.
KNITTING-MACHINE NEEDLES99,648. BRAM C. DAVIS.
MOP AND RUBBER SCRUBBER

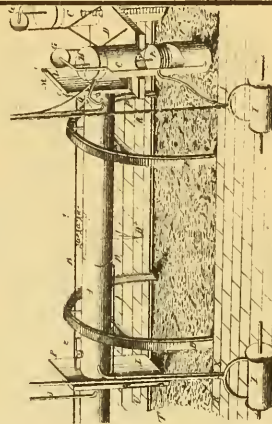
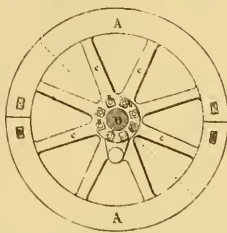
99,649. JOS. H. DAVIS. BIB-COCKS

99,650. JOS. H. DAVIS.
ANGLE-VALVE COCKS99,651. JOS. H. DAVIS.
GLOBE-VALVE COCKS.99,652. J. H. DAVIS.
CHECK VALVE COCK

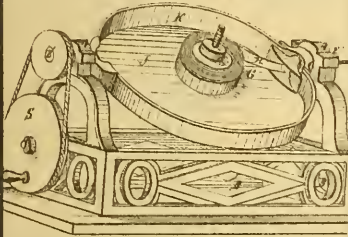
99,653, JOS. H. DAVIS.
VALVE-COCKS MADE OF CAST-IRON
AND SUBSEQUENTLY ANNEALED



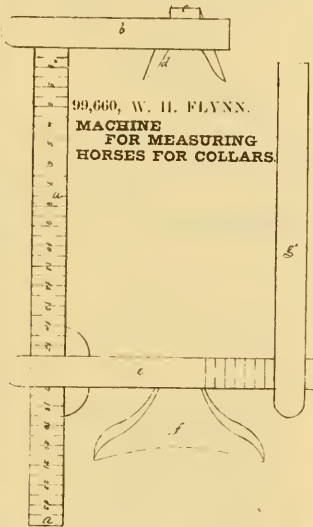
99,659, HENRY L. FARR.
SECTIONAL FLY-WHEELS.



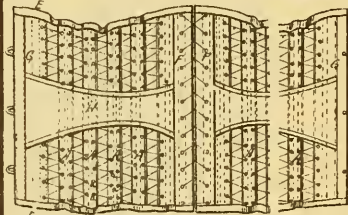
99,654, R. V. DE GUINON. MACHINE
FOR MAKING PAPER TWINE.



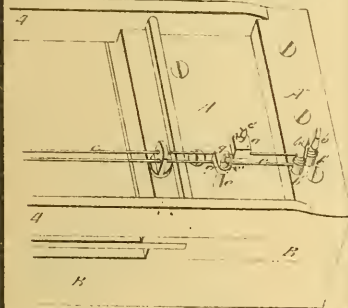
99,660, W. H. FLYNN.
MACHINE
FOR MEASURING
HORSES FOR COLLARS.



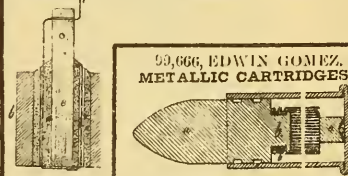
99,664, THOMAS S. GILBERT. CORSETS



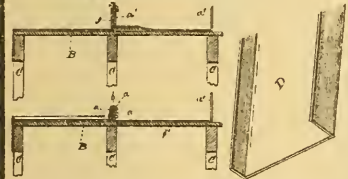
99,655, ANDREAS F. DESSAU. PIANOS



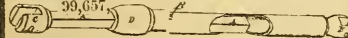
99,663, EDWIN GOMEZ.
EXPLODING COMPRESSED POWDER.



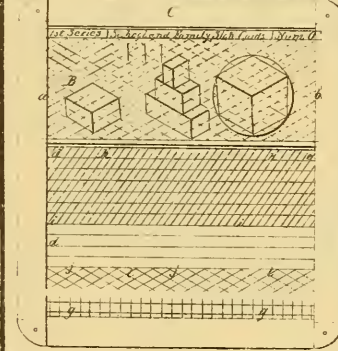
99,656, JOSEPH DIEHL.
SHEET-METAL ROOFING.



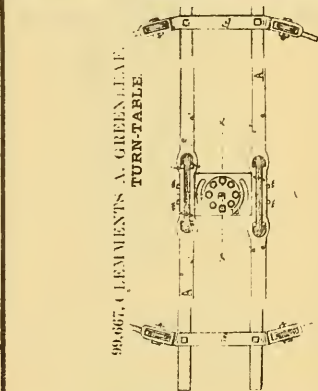
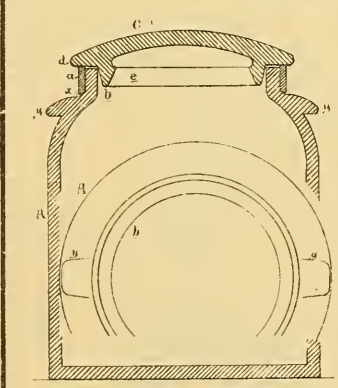
CHAS. F. DU VALL. SHAFT-COUPLING.



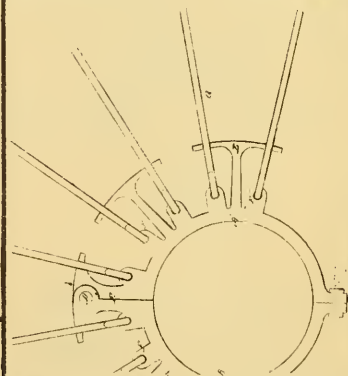
99,661, JOHN H. FRENCH.
WRITING-SLATES.



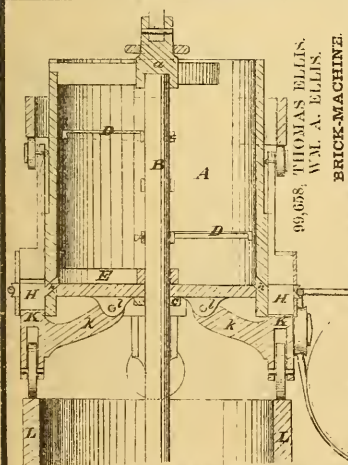
99,662, WM. GALLOWAY. FRUIT-JARS.



99,668, SELIM ELIAH GROUT.
TOWEL-DRIER

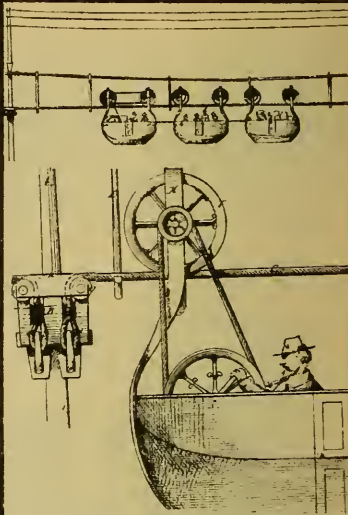
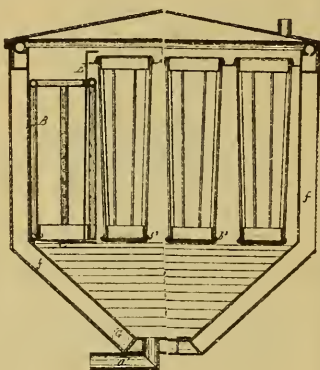
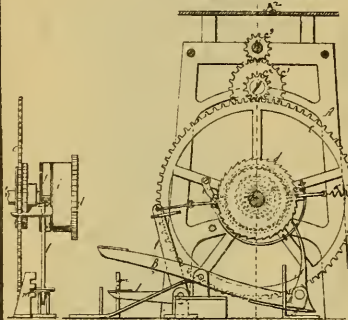
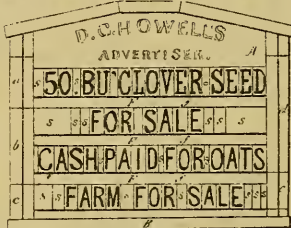
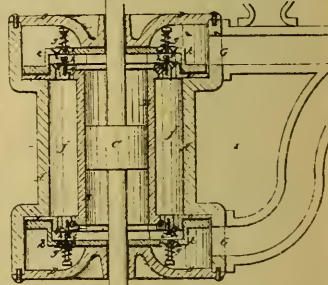
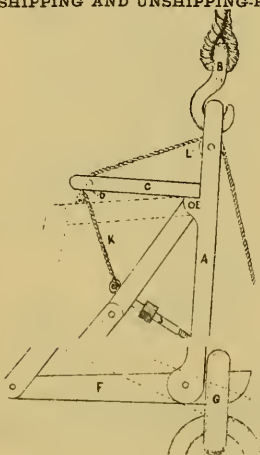
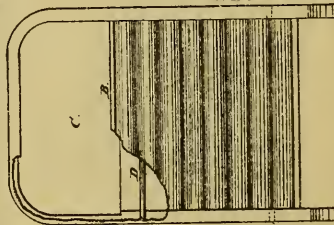
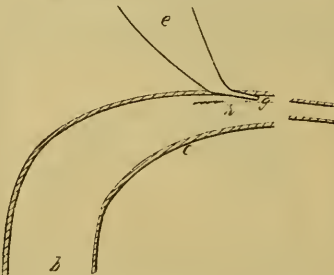
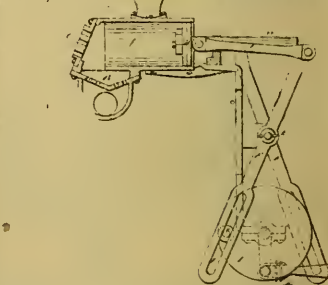
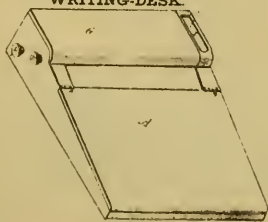
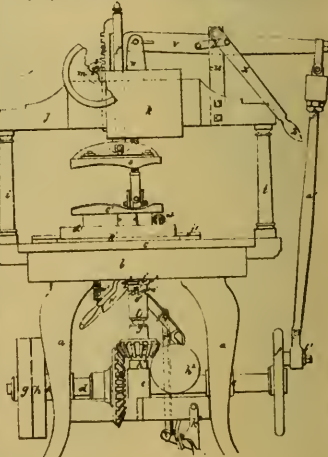
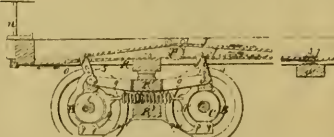


99,663, RUF
ATMOSPHERIC TRANSPORTATION.

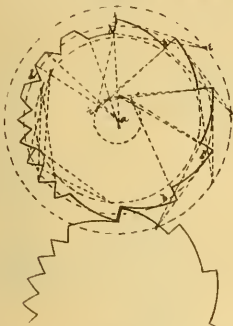


99,669, A. C. HALLAM,
JAMES W. McKEE.

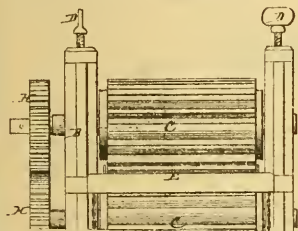
SPRING-POWER

99,674, CHARLES D. HOUSE
TWISTING-TUBES FOR SPINNING.99,675, DANIEL G. HOWELL.
EXTENSIBLE ADVERTISING-FRAME.99,680, WM. H. IVENS.
DOUBLE-ACTING PUMPS99,671, NOAH HAVERMALE.
SHIPPING AND UNSHIPPING-HOOKS.99,676, JOHN H. HUBBELL.
WASH-BOARD.99,677, WM. W. HUBBELL.
SMELTING AND REFINING IRON.WM. H. IVENS.
99,681, DOUBLE CYLINDER
FORCE-PUMPS.99,672, WILLIAM HOFER.
WRITING-DESK.99,682, ALBERT JEFFERS.
MACHINE FOR MOULDING, ROUNDING,
CHANNELLING, AND STAMP-
ING SOLES OF BOOTS AND SHOES.99,673, WILLIAM J. HOOPER,
THEODORE HOOPER, APPARATUS
ORAZIO LUGO, FOR DRYING
FISH AND OTHER SUBSTANCES.99,678, E. N. HUNTSMAN.
RAILWAY-CAR BRAKE.99,679, WALTER HYDE.
ELEVATED RAILWAY.

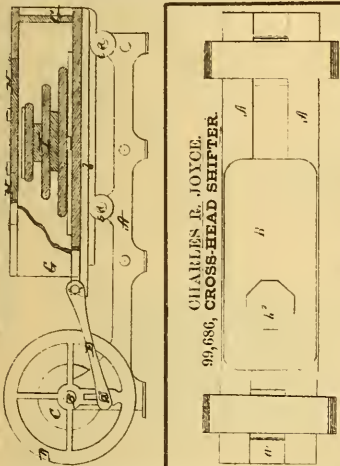
99,683, ASA JOHNSON. METHOD OF FORMING TEETH ON ROLLERS.



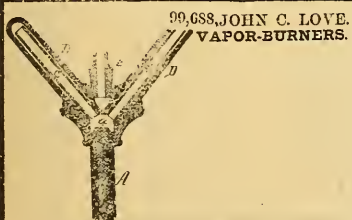
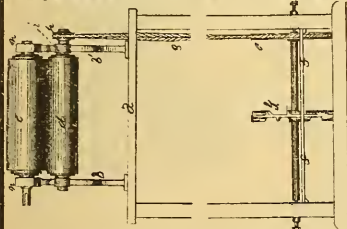
99,684, ASA JOHNSON. MACHINERY FOR CORRUGATING AND MOULDING SHEET-METAL.



99,685, JOSEF JOHNSON. POWER WASHING-MACHINE.

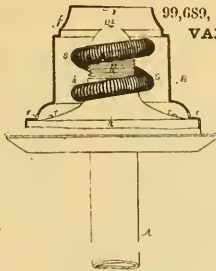


99,687, MARTIN M. KLUCK. MACHINE FOR SPREADING TOBACCO-LEAVES.

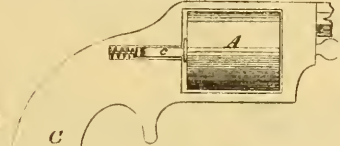


99,688, JOHN C. LOVE. VAPOR-BURNERS.

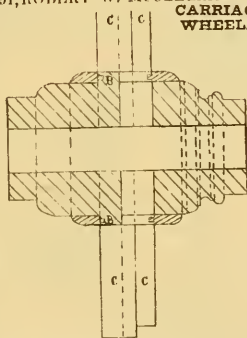
99,689, JOHN C. LOVE. VAPOR-BURNERS.



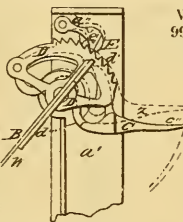
99,690, JOHN M. MARLIN. CARTRIDGE-SHELL EXTRACTOR.



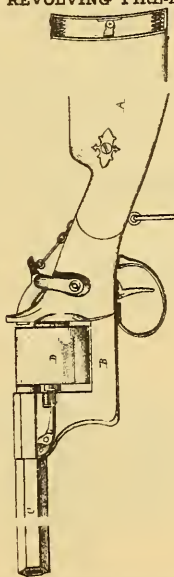
99,691, ROBERT W. McCLELLAND. CARRIAGE-WHEEL.



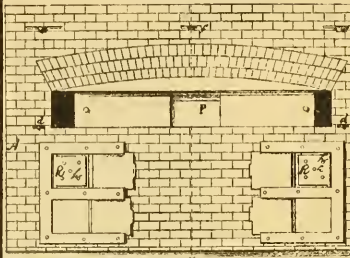
WM. L. McDOWELL. 99,692. REGISTER FOR AIR-FLUES.



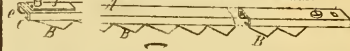
99,693, JOHN C. MILLER. REVOLVING FIRE-ARMS.



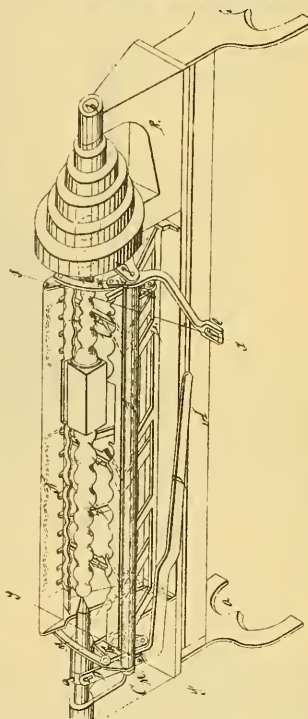
99,694, DANIEL MOORE. OVENS.



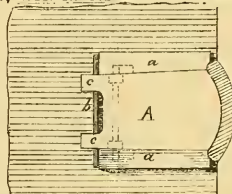
99,695, C. K. MYERS. HARVESTER-CUTTERS.



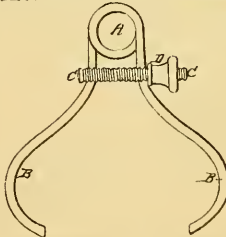
99,696, NATHAN NORRIS. CHARLES S. BLACK. HORACE S. BLACK. WOOD-TURNING LATHE.



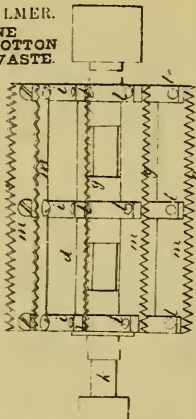
99,697, WM. R. OATLEY. STOVE-LEGS.



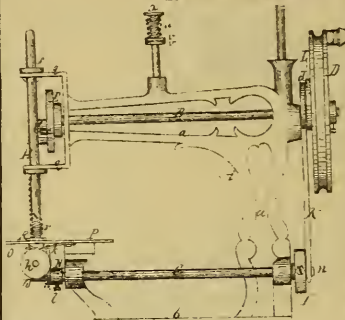
99,698, T. C. PAGE. GEO. W. HADLEY. CALIPERS.



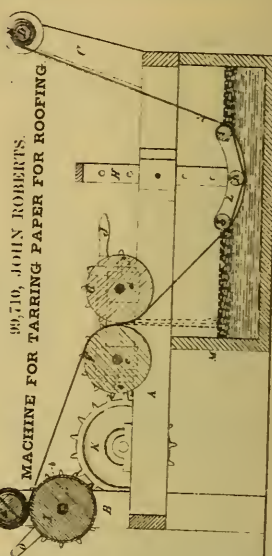
GEORGE F. PALMER.
99,699. MACHINE
FOR PICKING COTTON
AND OTHER WASTE.



99,704. ALONZO PORTER
SEWING-MACHINE.

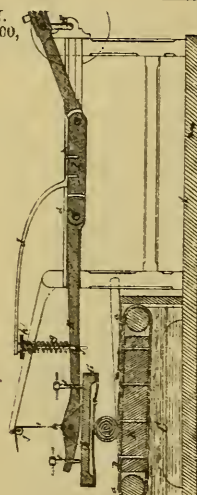


99,705. JOHN P. RADLEY.
HAMMERS.

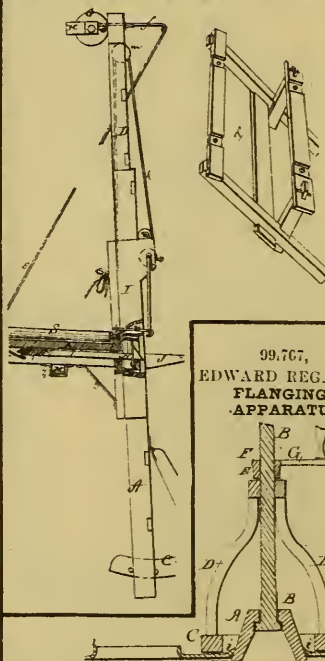


99,710. JOHN ROBERTS.
MACHINE FOR TARRING PAPER FOR ROOFING

FRANCIS DEGEN.
A. PELISSE. 99,700.
HAT-SIZING
MACHINES.



99,706. J. E. RANCH.
SCAFFOLD AND LADDER.



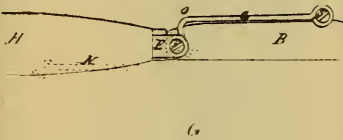
99,711. JAS. T. ROBINETT.
JOURNAL-BOXES.



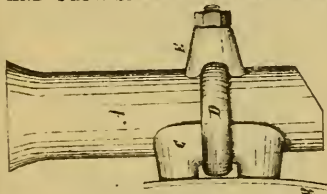
99,712. BENOIT ROUX.
AUGER GATE-HINGES.



99,701. DAN PERRY. KNIFE-GUARD.



99,702. JOSHUA PIERPONT.
DEVICE FOR SECURING SHOVELS
AND PLOW-SHARES TO STANDARDS.



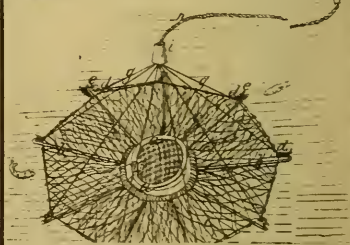
99,707.
EDWARD REGAN.
FLANGING-
APPARATUS.



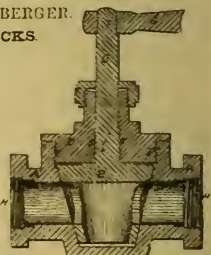
99,708. WILLIAM J. RICHARDS.
FERDINAND M. SOFGE.
JOSEPH H. RICHARDS.
STRINGING AND TUNING
PIANO-FORTES.



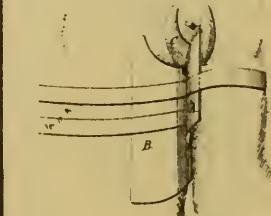
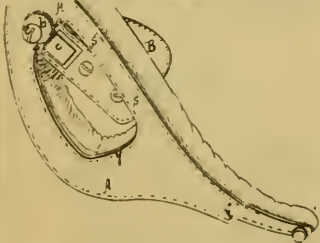
99,713. PHILANDER G. SABINS.
FISH-NET.



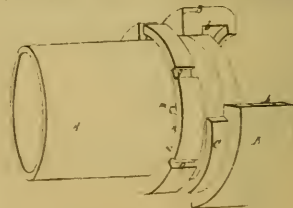
JOSEPH SEEBERGER.
99,714. STOP-COCKS.



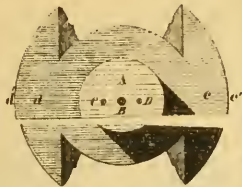
99,703. DANIEL POMEROY.
WILLIAM POMEROY. TRUSSES.



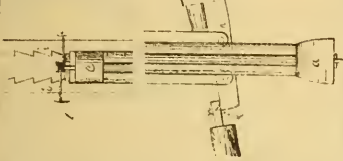
99,715. GEO. SEWELL. HOSE-COUPPLINGS.



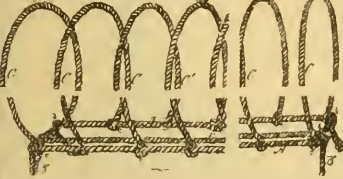
99,716,
THOMAS J. SHANNON.
MOULDING-CUTTER.



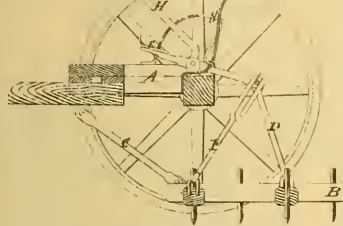
99,717, AMENZO SHAYER.
LIFTING-JACKS.



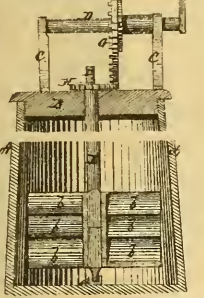
DANIEL SHERWOOD.
99,718, TOAST-RACK.



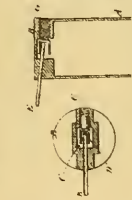
HENRY SHIRK, HARROW
CYRUS SHIRK.
99,719.



JOHN W. X. SMITH.
99,720,
CHURNS.

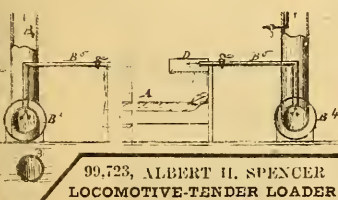
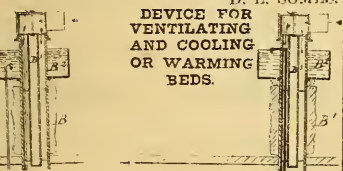


99,721,
WM. H. SMITH.
CARTRIDGES.

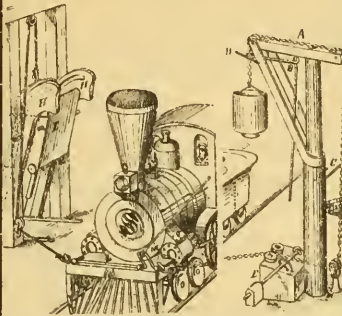


99,722.

D. E. SOMES.
DEVICE FOR
VENTILATING
AND COOLING
OR WARMING
BEDS.



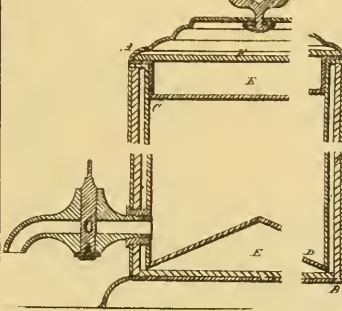
99,723, ALBERT H. SPENCER
LOCOMOTIVE-TENDER LOADER



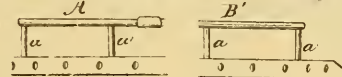
99,724, CHAS. F. SPENCER.
BUTTON-FASTENER FOR SHOES.



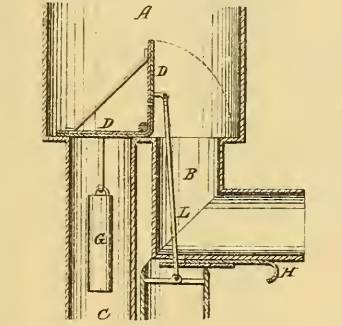
99,725, J. H. STONE.
WATER-COOLER.



99,726, DAVID STUART.
LEWIS BRIDGE.
FENDER FOR FIRE-PLACE HEATERS.

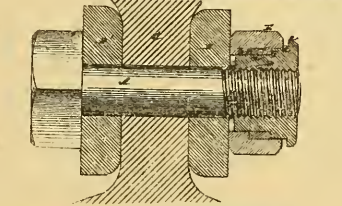


99,727, D. F. SWEET.
AUTOMATIC WATER CUT-OFFS.



99,728, JOSEPH A. TATRO.
PROCESS OF TREATING PETROLEUM.

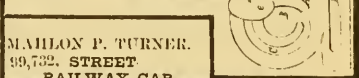
99,729, NATHAN THOMPSON.
NUTS FOR SCREW-BOLTS.



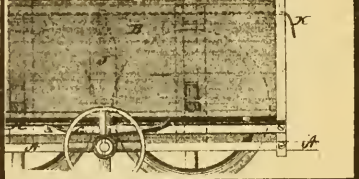
99,730,
JOSEPH TRENT.
DRAUGHT-BAR
FOR HORSE-CARS.



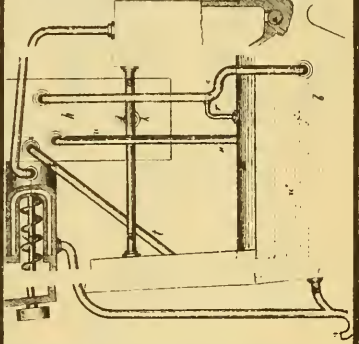
99,731, CHARLES M. TRIPP.
CLIP FOR HARNESS.



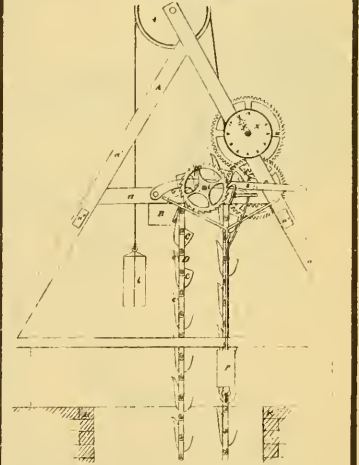
MAHON P. TURNER.
99,732, STREET
RAILWAY CAR.



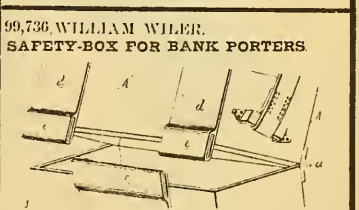
99,733, THOS. GEO. WALKER.
DANIEL S. YOUNG.
EXPPELLING VOLATILE MATTER FROM
PEAT AND OTHER MA-TERIALS



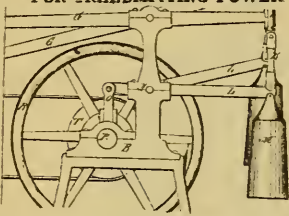
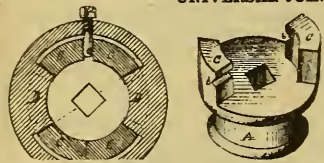
99,734, BENJAMIN WIELAND.
WATER-ELEVATORS.



99,735, SALMON W. WILDER.
CLEANSING PAPER, WHEN REDUCED
TO PULP, FROM COLORING MATTERS.

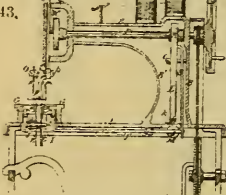


99,736, WILLIAM WILDER.
SAFETY-BOX FOR BANK PORTERS

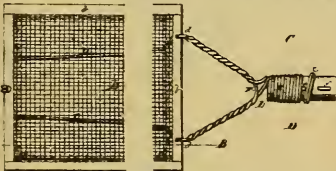
99,737, BLASIUS WILLIAMS. APPARATUS
FOR TRANSMITTING POWER99,738, HENRY WURTZ.
ARTIFICIAL FUEL99,739, HENRY WURTZ. COMPOSITION
FOR MOULDINGS, PICTURE-FRAMES99,740, HENRY WURTZ.
PREPARING ANHYDROUS GRAHAMITE.99,741, HENRY WURTZ.
CHEMICAL PRODUCT CALLED
FUSED OR ANHYDROUS GRAHAMITE.99,742, ANTON ZWIEBEL.
UNIVERSAL JOINT.

WILLIAM T. SMITH. SEWING-MACHINES.

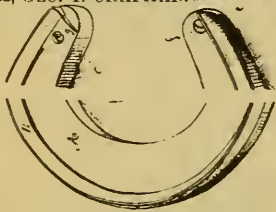
99,743.



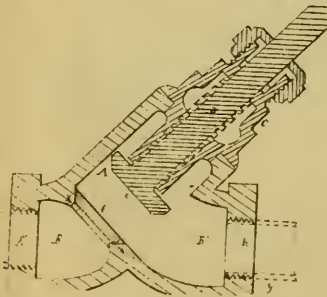
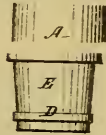
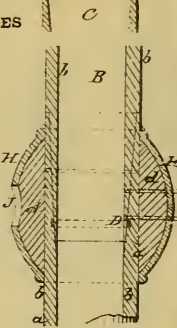
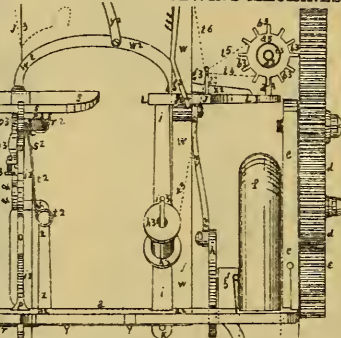
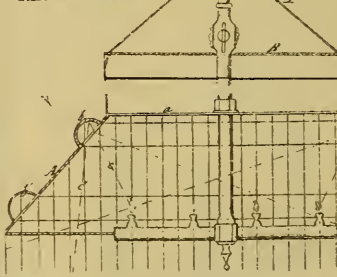
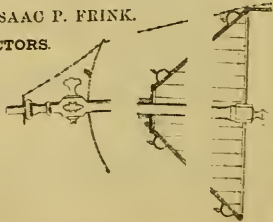
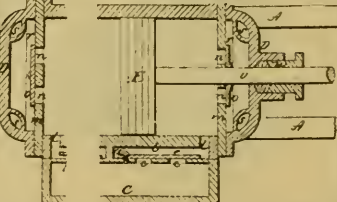
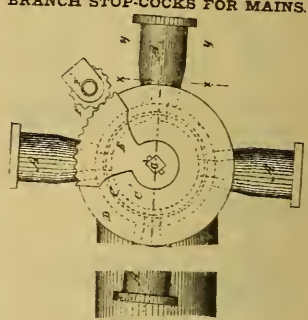
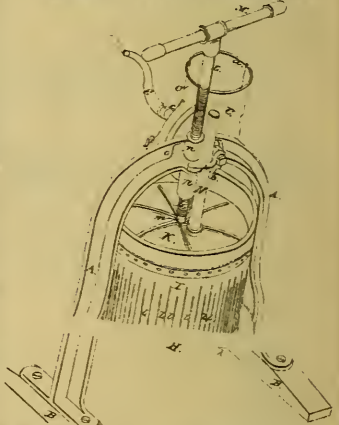
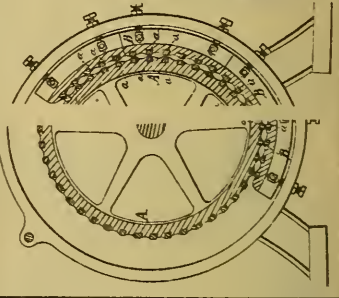
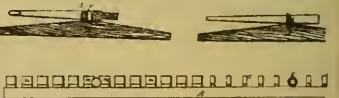
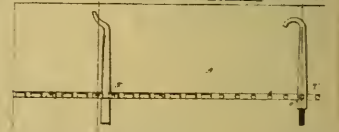
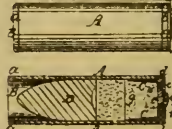
3,821, J. H. BIGELOW. CORN-POPPER.



3,822, GEO. T. CHAPMAN. HORSESHOES.



3,823, JOS. H. DAVIS. STOP-VALVES

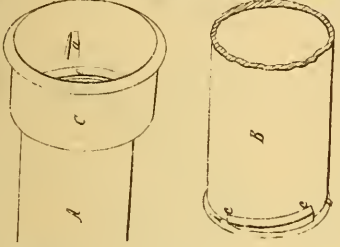
3,824, EDWIN DAYTON.
CEMENT
WATER-PIPES3,825, GEORGE L. DULANEY.
SEWING-MACHINES.3,826, ISAAC P. FRINK.
REFLECTORS.3,827, ISAAC P. FRINK.
REFLECTORS.3,828, WM. H. GUILD.
PNEUMATIC PUMPS3,829, R. A. HILL.
BRANCH STOP-COCKS FOR MAINS.3,830, C. B. HUTCHINSON.
MACHINE FOR GRINDING AND
PRESSING APPLES, GRAPES, &c.3,831, PIERRE PAUL JOSEPH MARTIN.
COTTON-SEED HULLERS.3,832, I. A. SALMON.
DENTISTS' TOOL-RACKS.3,833, ROLLIN WHITE.
METALLIC CARTRIDGES.

ILLUSTRATIONS OF PATENTS
ISSUED FROM

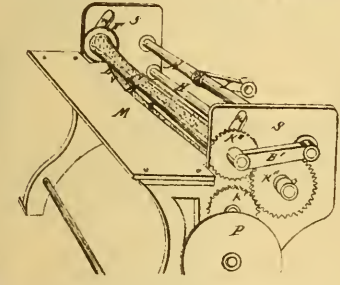
THE UNITED STATES PATENT OFFICE

FEBRUARY 15, 1870.

WM. D. ALFORD.
99,744, J. H. PITKIN. PIPE-COUPINGS.



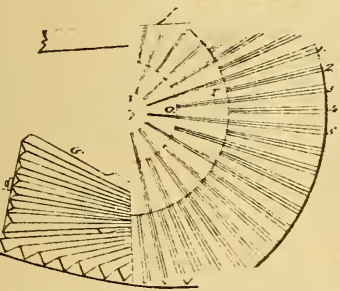
99,745, WM. G. AYRES.
SETH L. COLE. CIGAR-MACHINE.



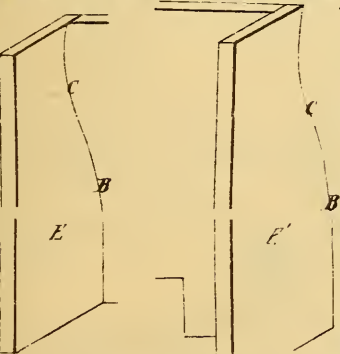
99,746,
ROBT. BACON. CABINET.



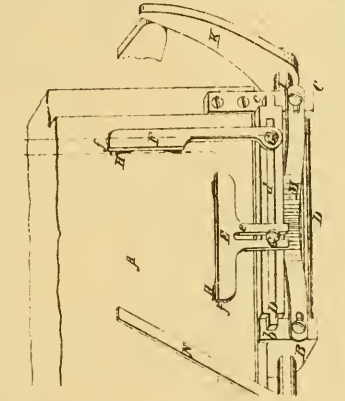
99,747, FORTUNE L. BAILEY.
WASHING-MACHINE.



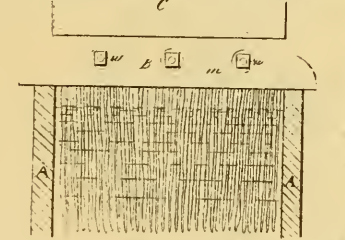
99,748, JAS. I. BARD. FIRE-PLACE BACK.



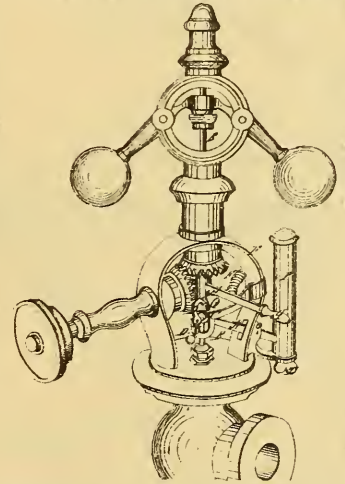
99,749, HENRY BARTIL. GRIPPERS
AND GAUGES FOR PRINTING-PRESSES.



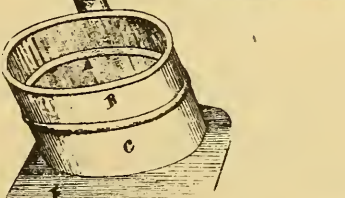
99,750, CHARLES BARTON. FRAME FOR
DYEING IN VARIOUS COLORS FOR
MANUFACTURE OF SCOTCH PLAIDS, &c.



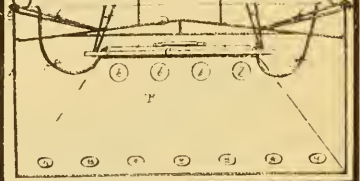
99,751, JOSEPH BELL. GOVERNORS
FOR STEAM AND OTHER ENGINERY.



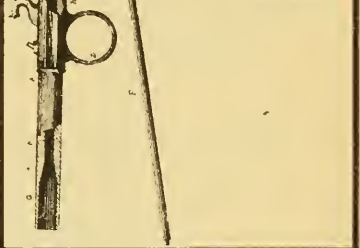
99,752, FRANK S. BISSELL. COOKING-STOVES.



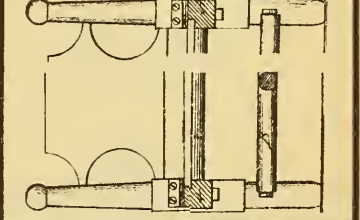
99,753, CHARLES D. BLINN. WASH
BOILERS.



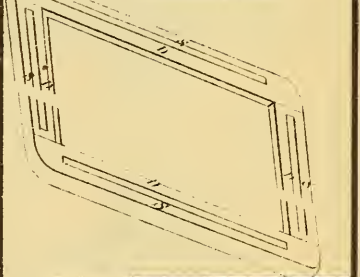
99,754, REUBEN BROOKS, JR.
AIR-PISTOL.



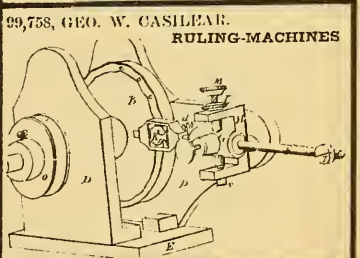
99,755, W. H. BUELL. FOLDING BEDSTEAD.

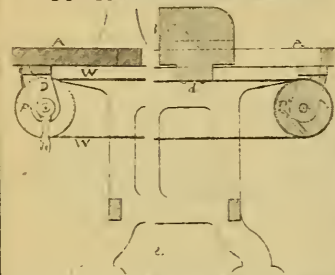
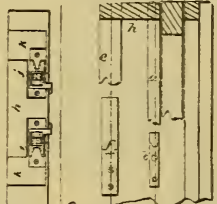
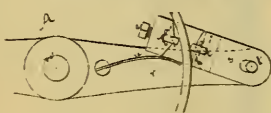
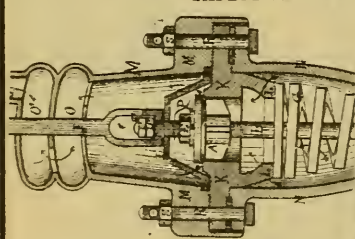
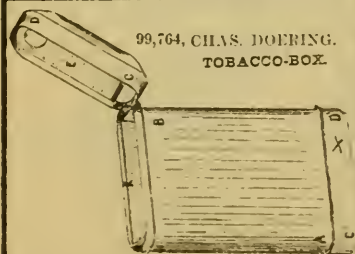
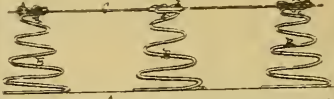
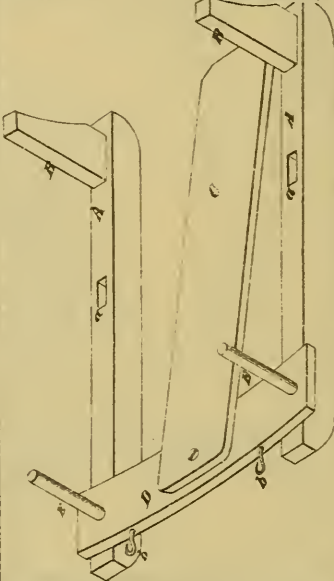


99,756, EBENEZER BUTLER. SLATE-FRAMES.

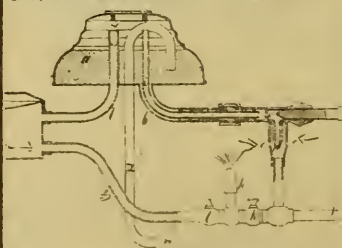
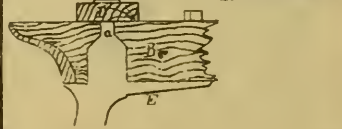
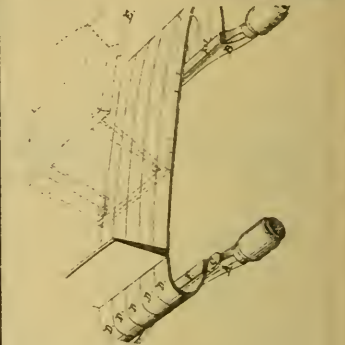
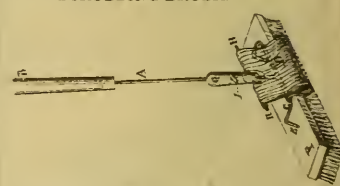
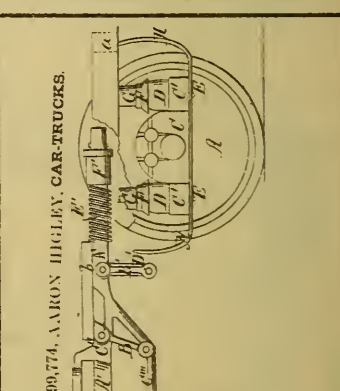


99,757, GEO. W. CASILEAR. BANK NOTES,
BONDS, REVENUE STAMPS.

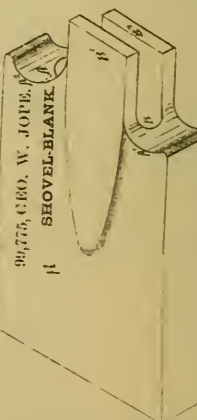
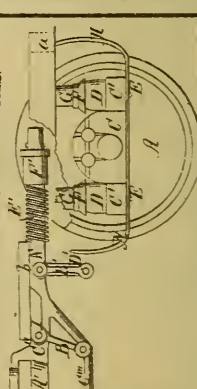


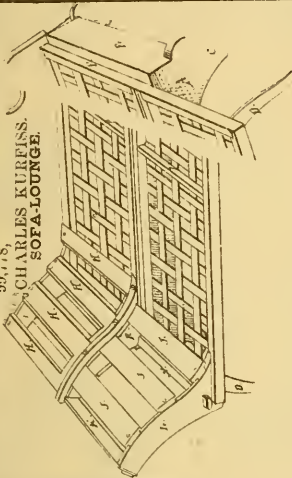
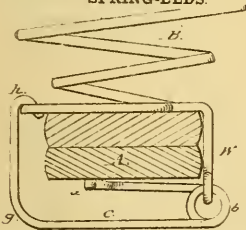
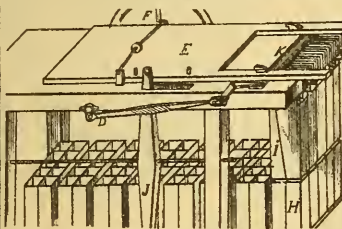
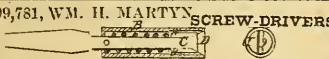
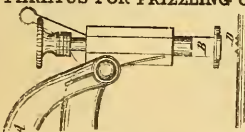
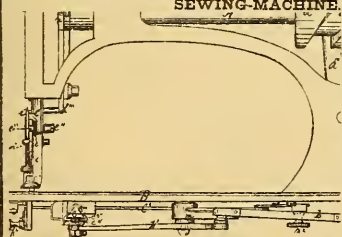
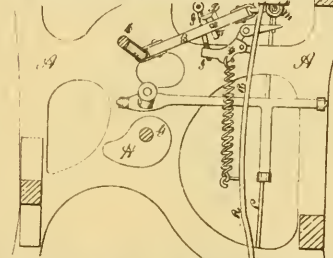
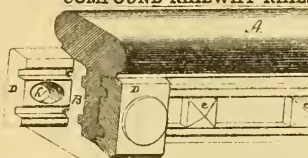
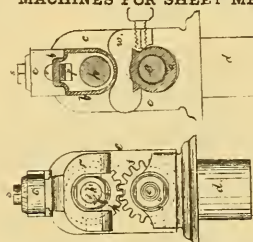
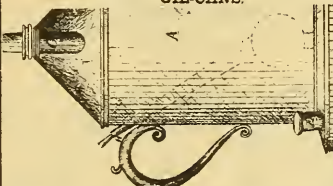
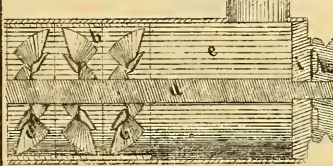
99,759, CYRIL C. CHILD. GAUGES
FOR PAPER-CUTTING MACHINES.99,760, A. J. CLEVELAND.
WINDOW-FRAME.99,761, MOSES G. CRANE.
A. M. POLSEY.
FRICTION-CLUTCH MECHANISM.99,762, GEO. W. CUSHING.
SAFETY-VALVES.99,763, W. H. DANIELS
FRUIT JAR99,764, CHAS. DOERING.
TOBACCO-BOX.99,765, CHARLES H. DUNKS
SPRING-FEED BOTTOM.99,766, DANIEL EDELMAN.
AMOS EDELMAN.
HAY-DRAGS.99,767, HENRY FELLOWS.
STIRRUP AND SPUR FOR SADDLES

99,768, D. E. FIELD. CORN-SHELLERS.

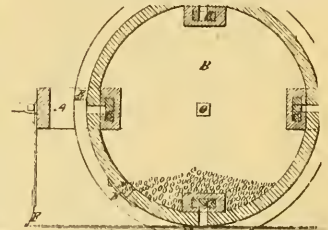
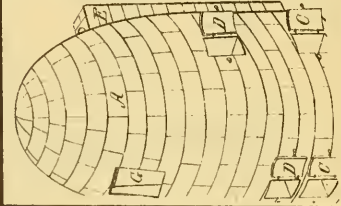
99,769, JOHN GAIR.
GAS-CARBURETING APPARATUS99,770, JOHN P. GARLAND.
SLEIGH-KNEE.99,771, LEWIS L. GORDON.
WAGON-SPRING.99,772, LEWIS L. GORDON.
SCRUBBING-BRUSH.99,773, CARL GÜNTHER.
PROCESS AND MATERIAL FOR
ORNAMENTING TEXTILE FABRICS.

99,774, AARON HIGLEY. CAR-TRUCKS.

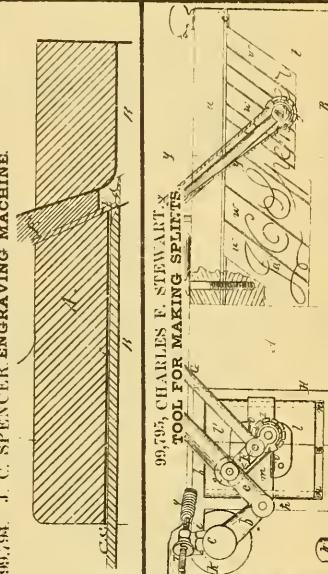
99,775, GEO. W. JOYE.
SHOVEL-BLANK.99,776, FRANK KEELER.
ELLIPTIC SPRINGS

99,777, OLIVER KELLS.
METALLIC HEARTH.99,778, CHARLES KURENS.
SOFA-LOUNGE.99,779, HERMON W. LADD.
GEORGE F. LADD.
SPRING-BEDS.99,780, L. T. LUTHER.
MATCH-MACHINE.99,781, WM. H. MARTYN.
SCREW-DRIVERS.99,782, SCHAMUMORITZ MOSCHCOWITZ.
APPARATUS FOR FRIZZLING CLOTH.99,783, NICHOLAS MEYERS.
SEWING-MACHINE.99,785, ELLIS G. ONT.
FASTENING HANDLES TO CUTLERY.99,786, JOSEPH POTTER.
FOR RELIEVING THE PRESSURE ON
MECHANISM SHUTTLE-BOX SWELL.99,787, DANIEL R. PRATT.
COMPOUND RAILWAY RAILS.99,788, C. H. RAYMOND. BEADING
MACHINES FOR SHEET METAL.99,789, PATRICK SCANLAN.
OIL-CANS.99,790, JOHN L. SECOMB.
SPRING BED-BOTTOM.99,791, THOMAS SHAW.
COMPOUND PROPELLER PUMPS.

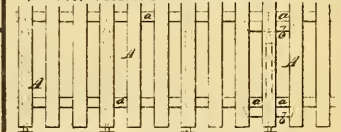
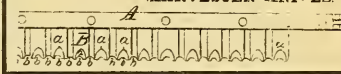
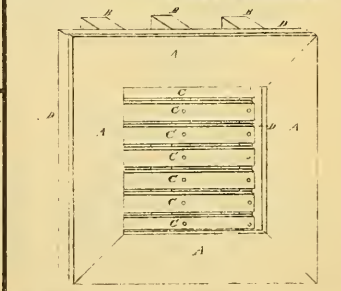
99,792, JOHN W. SIMONTON.

SELF-WORKING
ROTARY CORN-PLANTER.99,793, IRA O. SMITH.
BURNING EDGINGS, SAWDUST.

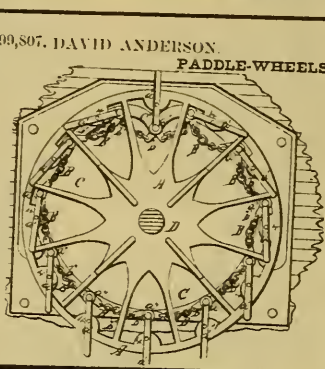
99,794, J. C. SPENCER ENGRAVING MACHINE.



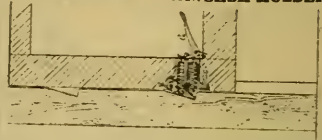
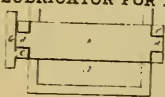
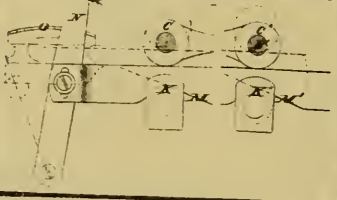
99,795, M. VANWOERME FENCE.

99,797, GEO. J. WARDWELL.
HARVESTER KNIVES.99,798, J. R. WEBER.
HOUSE TRIMMINGS.

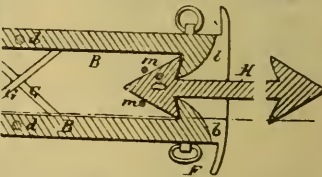
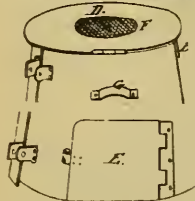
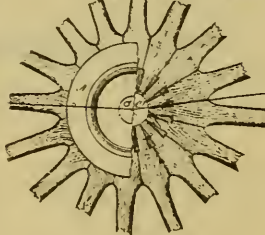
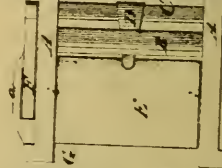
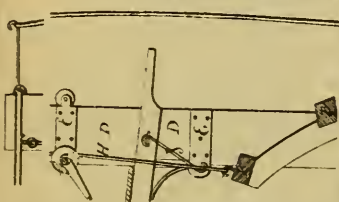
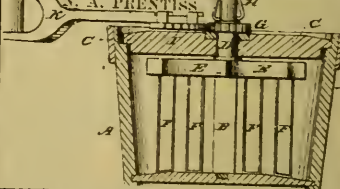
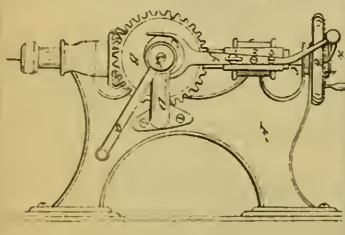
99,799, GEORGE W. WELLS. SCAFFOLD

99,806, J. A. ADAMS.
MODE OF COVERING MOLDS AND
OTHER ARTICLES WITH A METALLIC
SURFACE.

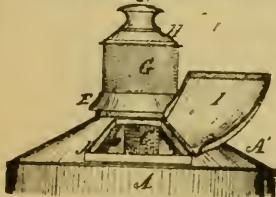
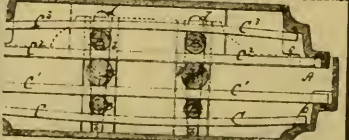
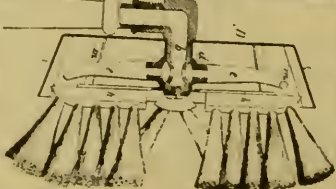
99,813, CHARLES BEAN. SASH-HOLDERS.

99,800, PEREGRINE WHITE.
LUBRICATOR FOR BEARINGS OF
SHAFTS.99,808, MOSES L. ANDREW.
PLANING-MACHINES.

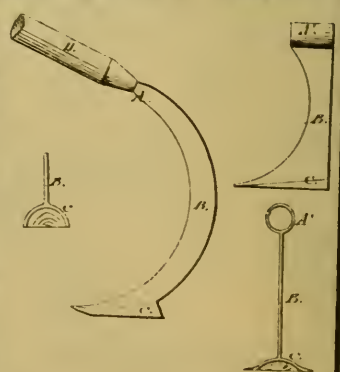
99,817, W. W. BELL. CAR COUPLING.

99,801, HENDERSON WILLARD.
STOVE FOR BURNING STUMPS99,809, SIMEON ATILA.
CARRIAGE-WHEEL HUBS99,818, CHARLES W. BENSON.
RAILWAY CAR-COUPPLINGS.99,802, GEO. G. WINANS.
ELEVATING APPARATUS.99,810, LORING ATWOOD.
EDWARD RIPLEY.
WOOD-TURNING LATHE99,819, H. H. BIGARD.
E. H. KELLOGG.
N. A. PRENTISS.
CHURNS.99,803, EDWARD J. WORCESTER.
DRILLING-MACHINE.99,811, JACOB M. AUSTIN.
SOAP MIXTURE.

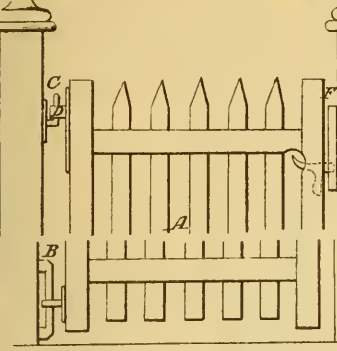
99,812, J. W. BALDWIN. GLOBE-VALVES.

99,820, SAMUEL H. BINGMAN.
COMBINED REEL AND RAKE FOR
HARVESTERS99,804, W. H. YOUNG.
FARE-BOXES FOR STREET-CARS.99,813, C. M. BANKS.
SPRING FOR RAILWAY-CARS99,814, GOTTLIEB M. BARTH.
ROTARY WINDOW-WASHER

99,821, LESTER L. BOND. HOES.

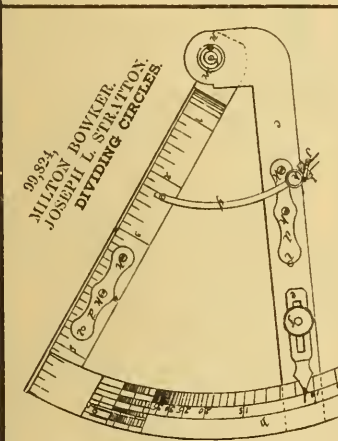
99,805, JOHN ABSTERDAM. PROCESS OF
WELDING CAST OR BESSEMER STEEL

99,822, CHARLES S. BONNEY. GATES.



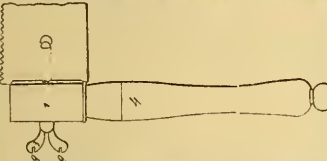
99,823, HENRY C. BORGNER.

INDIGO SOAP.

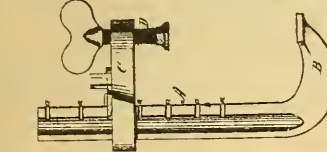


99,825, E. M. BOYNTON.

HANDLES FOR CROSS-CUT SAWS.

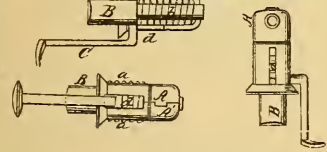


99,826, SAMUEL C. BRADLEY. CLAMPS.



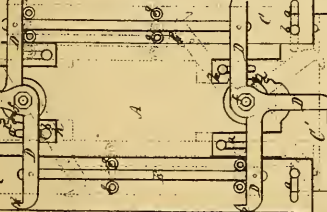
99,827, E. K. BRECKENRIDGE.

SASH-HOLDER.



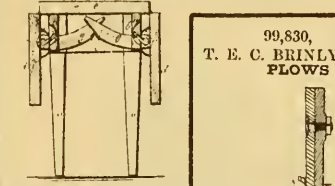
99,828, MARTIN BRIGGS.

BOLT-WORK FOR SAFE DOORS.



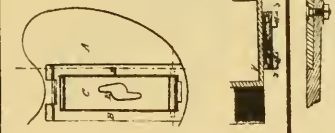
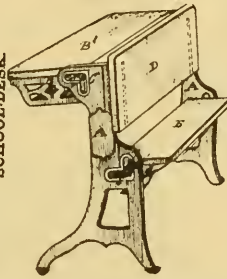
99,829, WARREN R. BRIGGS.

TABLE-LEAF SUPPORT.

99,830,
T. E. C. BRINLY.
FLOWS

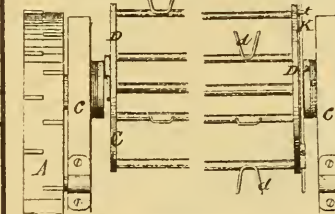
99,831, F. W. BROOKS.

SEAL LOCK.

99,832,
JOHN DAVID BROWNE.
SCHOOL-DESK.

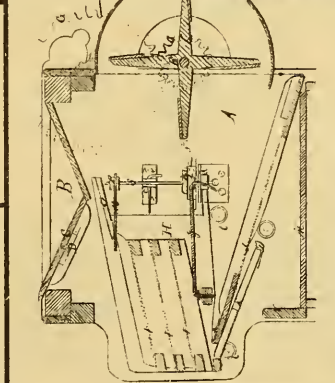
99,833, ROBERT BRYSON.

HAY-TEDDERS.

99,834, M. H. BUCHANAN.
BRIDLE.

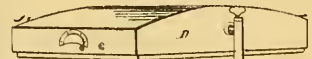
99,835, HIRAM BURDICK.

GRAIN-SEPARATORS.



99,836, O. S. BURGESS.

WASHING-MACHINE.



99,837, THOMAS BURGIN.

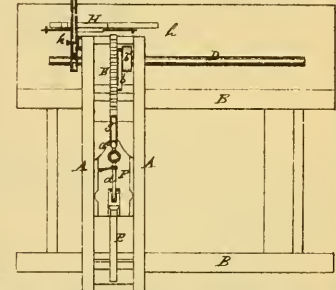
CURTAIN-FIXTURE.



99,838, JOHN H. BURKET.

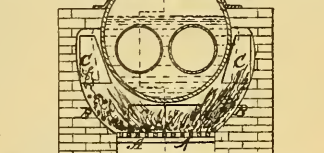
GEORGE BURKET.

HEAD-BLOCK FOR SAW-MILLS.



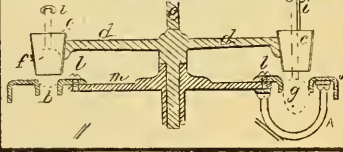
99,839, W. H. BURNS.

BOILER FURNACES AND FLUES.



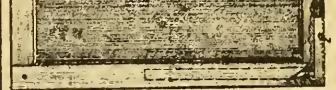
99,840, GEO. A. BURROUGH.

TEASEL-GRADING MACHINES.



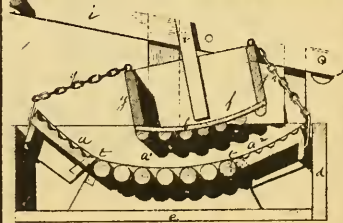
99,841, S. B. BUSHFIELD, JR.

SLATE-FRAMES.

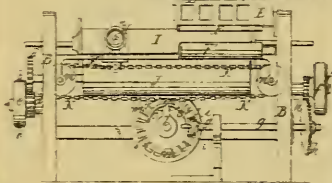


99,842, N. W. CALHOUN.

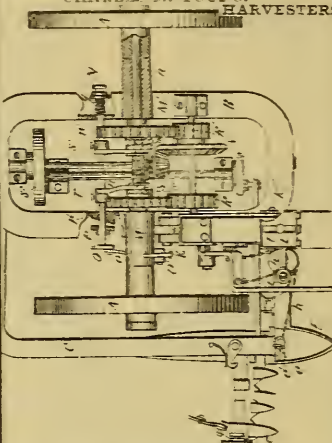
WASHING-MACHINE.



99,842, DUNCAN McFARLANE,
SAMUEL CAMPBELL.
WARPING-MACHINES.

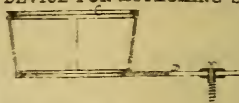


99,850, GRANT T. COOLMAN
CHARLES M. YOUNG.
HARVESTERS.

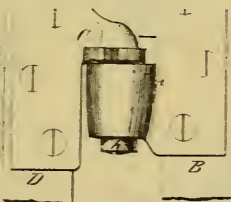


99,856, THOMAS H. CTEREY.
IMPROVED PAINT.

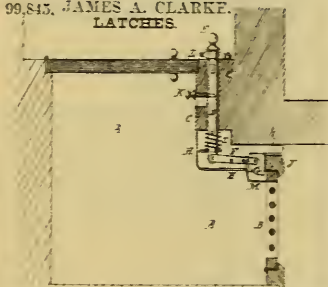
99,857, JOHN S. DAGGETT.
TO FLOORS OF RAILROAD-CARS
DEVICE FOR ATTACHING SPITTOONS



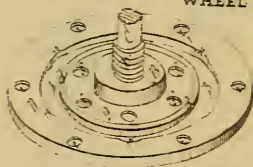
99,844,
CHAS. R. CLARK.
BLIND-HINGE.



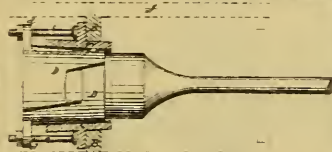
99,845, JAMES A. CLARKE.
LATCHES.



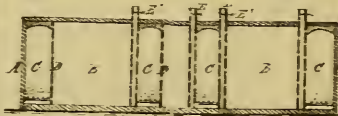
99,851, ALMOND F. COOPER.
CARRIAGES AND OTHER VEHICLES.
WHEEL FOR



99,846, JOHN CLARK, PISTON-PACKING.



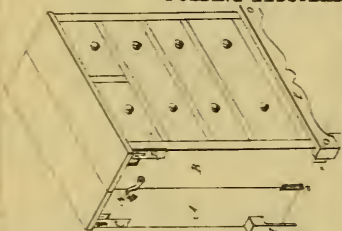
99,852, RICHARD D. COX.
BRICK-KILNS



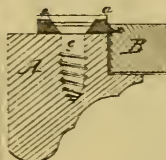
99,853, GERMOND CRANFELL.
INSTRUMENT FOR DESCRIBING SPIRALS



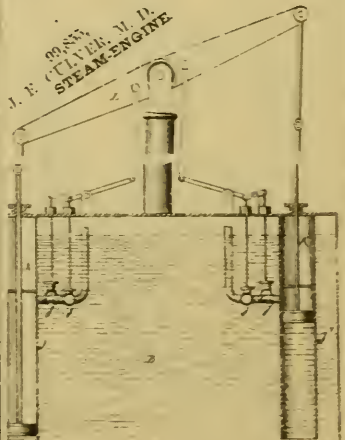
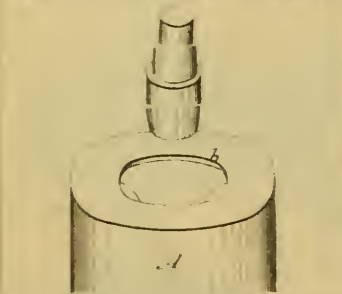
99,847, THOMAS G. CLIFFORD.
FOLDING BEDSTEAD.



99,854,
JOHN D. CROCKER.
PICTURE-FRAME
FASTENING

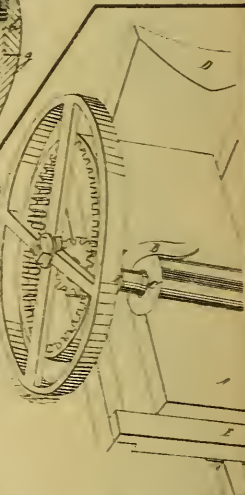


99,848, J. H. COLE, DIE AND PLUNGER.

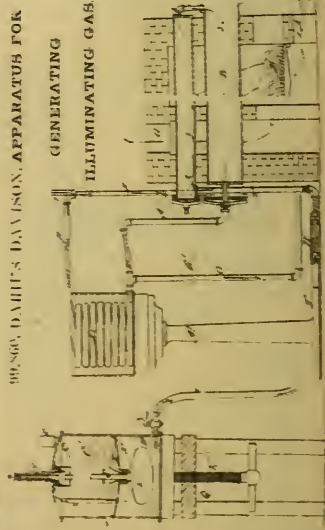


99,855,
J. E. CUTLER, M. D.
STEAM-ENGINE

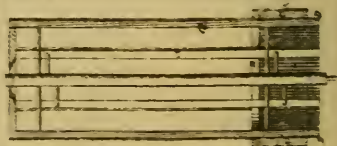
99,859,
ROBERT DARTINGTON,
ELLY L. WATSON.
MACHINE FOR DIGGING
SWEET-POTATOES.



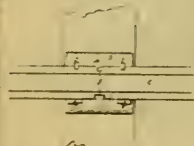
99,860, DAVID'S DAVISON, APPARATUS FOR
GENERATING
ILLUMINATING GAS.



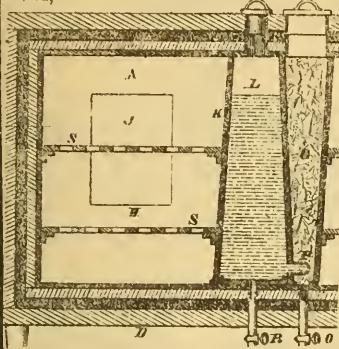
99,861, A. J. DIERKE, FLOUR-ROLLS



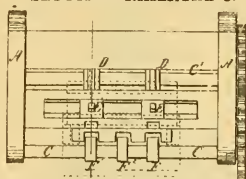
99,849,
HIRAM COOK.
FISH-JOINTS FOR
RAILWAY-RAILS



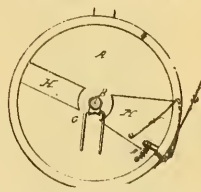
99,862, H. M. DIGGINS. REFRIGERATOR.



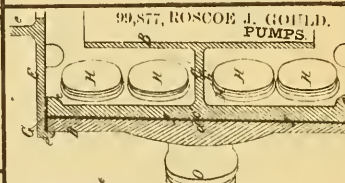
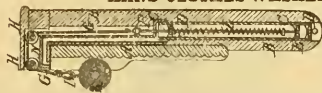
99,869, DAVID EYNON. MACHINE FOR SLOTTING RAILROAD-CHairs.



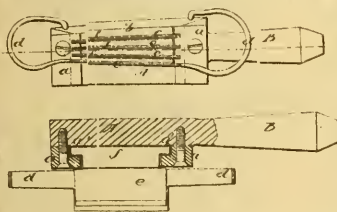
99,876, R. H. GILBERT. BLOWING APPARATUS.



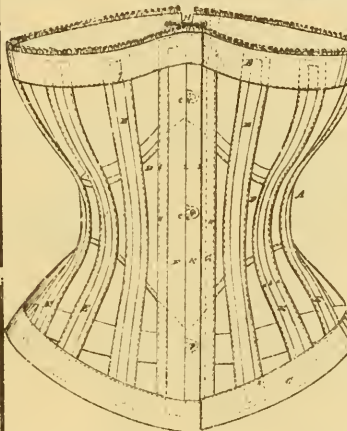
99,870, PETER FALARDO. GEO. H. SNOW. HAND CLOTHES-WASHER.



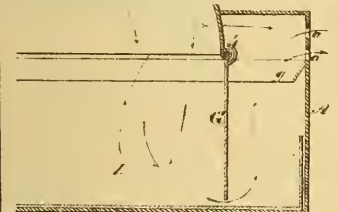
99,863, A. W. DORR. TOOL FOR CHECKING TIMBER.



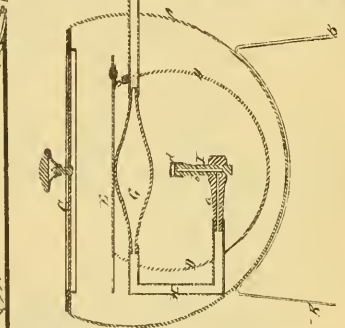
99,871, D. H. FANNING. SKELETON CORSETS.



99,864, OCTAVIUS A. EBERT. ATTACHMENT FOR HOT-AIR REGISTERS.



99,878, B. D. GREENE. VAPOR-BURNER.

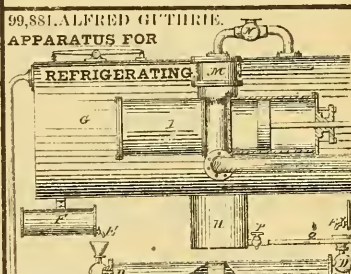


99,879, ERNEST GREENFIELD. MANUFACTURE OF LOZENGES AND CONFECTIONERY.

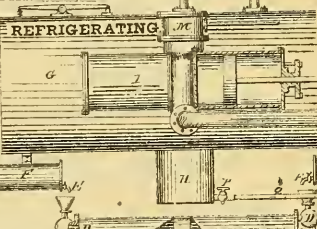
99,872, GEO. K. FARRINGTON. COMBINATION PADLOCKS.



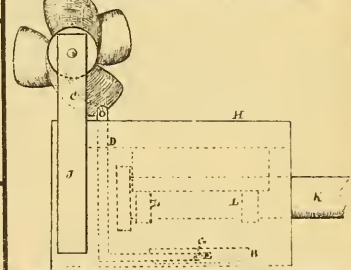
99,880, ERNEST GREENFIELD. CRACKERS, OR MEAT BISCUITS.



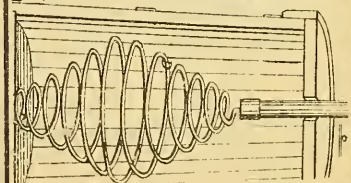
99,881, ALFRED GUTHRIE. APPARATUS FOR



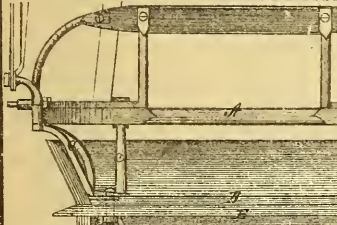
99,882, JOHN T. HAGERTY. RAILWAY-CAR AXLE-BOX.



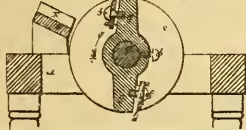
99,883, W. H. HAINES. EGG-BEATER.



99,865, DAVID ELDRIDGE. SHIFTING BUGGY-TOPS.



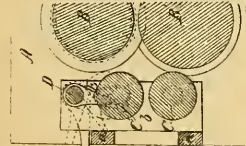
99,866, SETH C. ELLIS. MACHINE FOR LAYING OUT DOORS AND SASH.



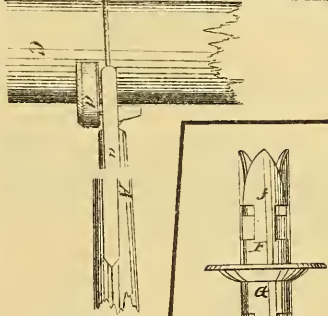
99,867, WILLIAM EVANS. SPRING-BRACE FOR CARRIAGES.



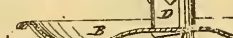
99,868, DAVID EYNON. MACHINE FOR ROLLING RAILROAD-CHairs.



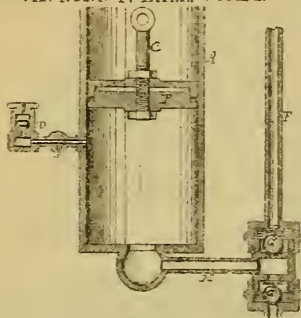
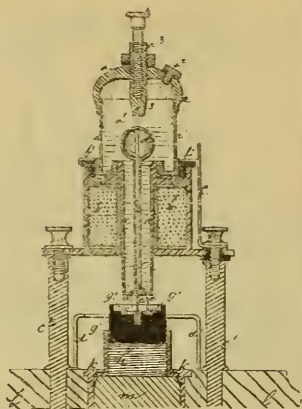
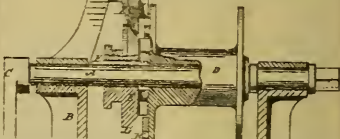
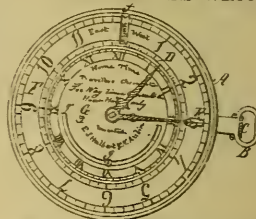
99,874, EUGENE G. GAILLAC. BOOMS FOR VESSELS.



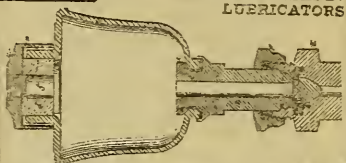
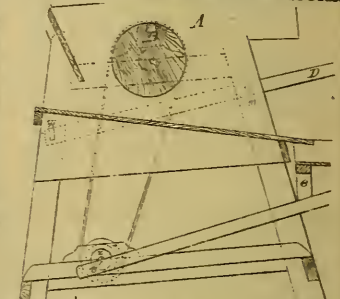
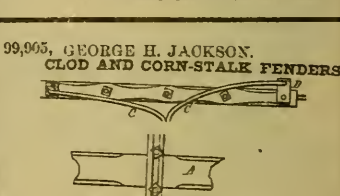
99,875, SAM'L. GARDINER, JR. CANDLESTICKS.



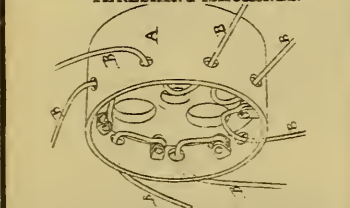
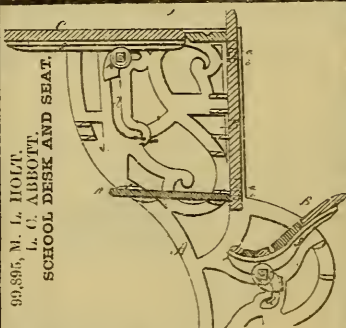
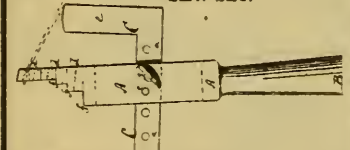
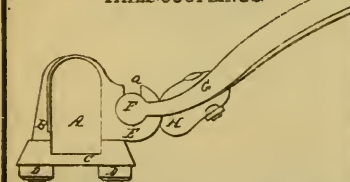
99,884, MORGAN P. HALL. PUMPS.

99,885, JNO. HALLIDAY.
COLORING MATTER TO BE USED
IN VULCANIZED RUBBER.99,900, W. T. HOWARD.
OLIVER REEDER.
OYSTER-DREDGE WINDLASS.99,901, JNO. HUGHES.
ATTACHMENT FOR LAMP-CHIMNEYS.99,902, EDWIN JAMES HULBERT.
N. AUBIN.
ADJUSTABLE DIALS
FOR TRAVELERS WATCHES.

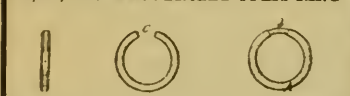
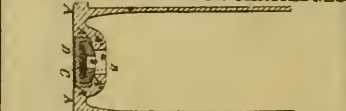
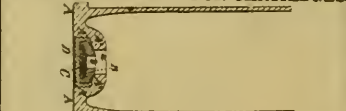
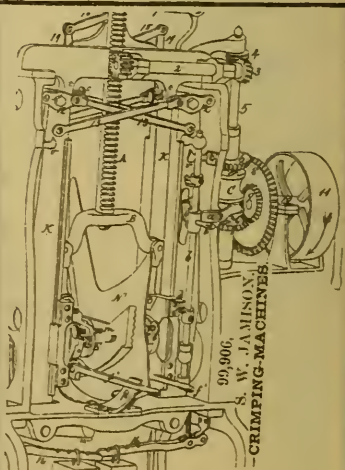
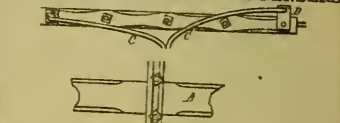
99,886, S. M. HAMILTON, BRICK-KILNS.

99,893, BYRON R. HILL.
REVOLVING FIRE-ARMS.99,894, TIMOTHY HOLLAND.
LUBRICATORS.99,903, HERBERT A. HUMMER.
GRAIN-SEPARATORS.99,904, JAMES HUNTER.
OBTAINING Madder EXTRACT.

99,887,

99,888, GEORGE B. HAMLIN.
THRESHING-MACHINES.99,895, M. L. AUBOTT.
SCHOOL DESK AND SEAT.99,896, WILLIAM J. HOOPER.
THEODORE HOOPER.
TREATING FISH AND ANIMAL
MATTERS TO OBTAIN OILS, FATS
AND OTHER PRODUCTS.99,889, H. A. HARRIS.
SAW-SET.99,890, ALBERT S. HARRY.
THRILL-COUPPLINGS.

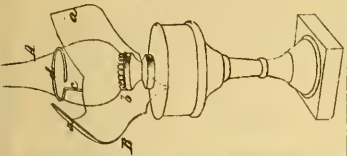
99,891, T. S. MATTERSLEY. SPLIT RING

99,892, E. S. HIDDEN. RELAYS FOR
TELEGRAPHIC INSTRUMENTS.99,898, B. B. HOTCHKISS.
BREECH-LOADING FIRE-ARMS.99,899, B. B. HOTCHKISS.
PRIMERS FOR CARTRIDGES.99,905, GEORGE H. JACKSON.
CLOD AND CORN-STALK FENDERS.99,906,
S. W. JAMISON.

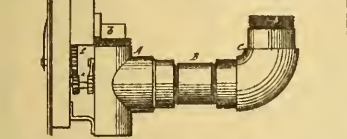
CRIMPING-MACHINES.

99,907, HENRY M. JOHNSTON.
PIGMENTS FOR DISTEMPER PAINTING.

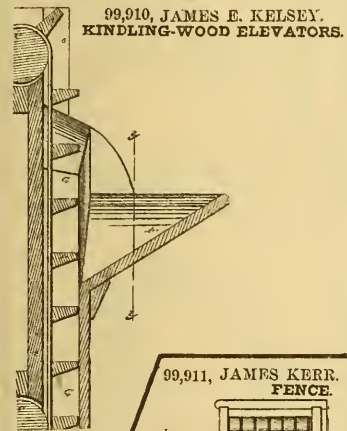
99,908, FREDERICK JUDSON.
REFLECTORS FOR LAMPS.



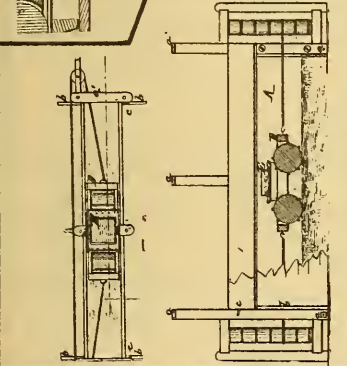
99,909, JOS. F. KELLEY. WATER-METERS.



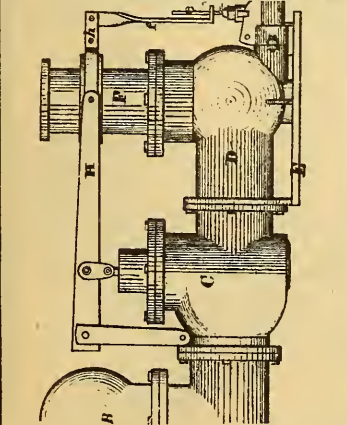
99,910, JAMES E. KELSEY.
KINDLING-WOOD ELEVATORS.



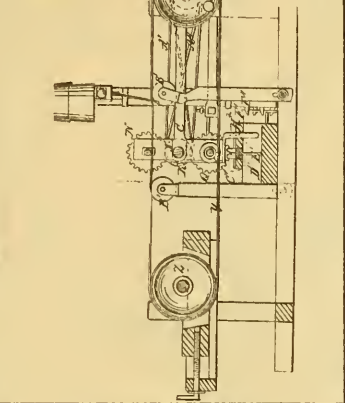
99,911, JAMES KERR.
FENCE.



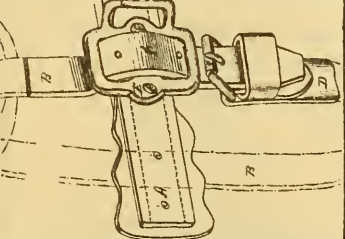
99,912, LEWIS Y. KETCHAM.
JAMES TAYNTON.
YARD AND TANK-CRANES.



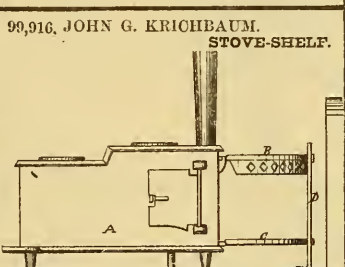
99,913, HORATIO KEYES.
MACHINE FOR SMOOTHING SPOKES.



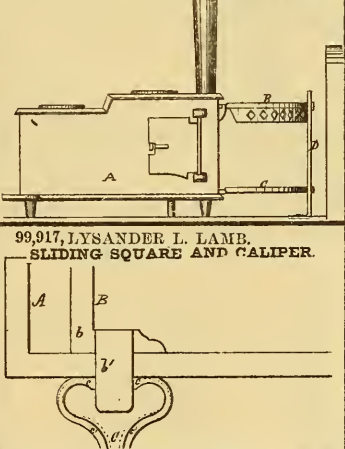
99,914, WILLIAM R. KNOWLES.
TRACE-BUCKLE FOR HARNESS.



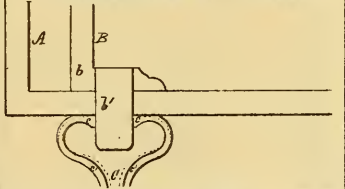
99,915, G. A. KNOWLTON. ELACKEAILS
FOR BOOT AND SHOE-MAKERS.



99,916, JOHN G. KRICHBAUM.
STOVE-SHELF.



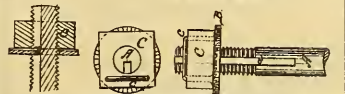
99,917, LYSANDER L. LAMB.
SLIDING SQUARE AND CALIPER.



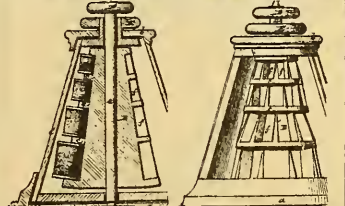
99,918, GEO. LANE. NECK-TIES.



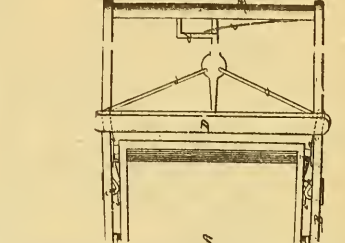
99,919, M. LANGHORNE. LOCK-NUT.



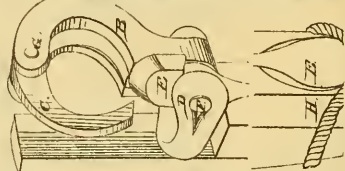
99,920, J. N. LEONARD. SHOW-CASE
FOR SPOOLS AND OTHER ARTICLES.



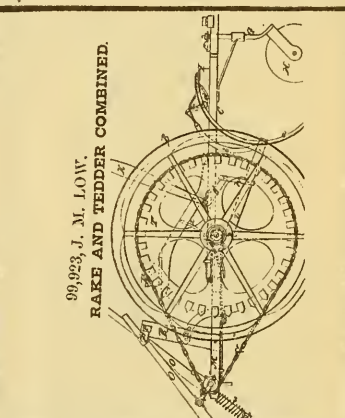
99,921, CYRUS LITTLE.
ROAD-SCRAPER.



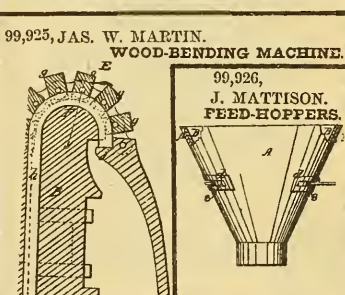
99,922, SAM. L. LORD.
BOAT-DETACHING APPARATUS.



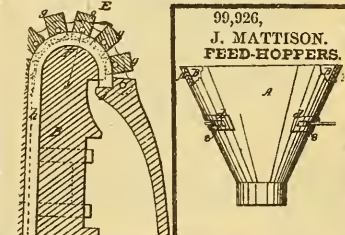
99,923, J. M. LOW.
RAKE AND TEDDER COMBINED.



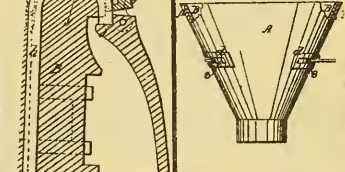
99,924, ORAZIO LUGO.
MANUFACTURE OF FERTILIZERS AND
IN EXTRACTING OILS AND FATS.



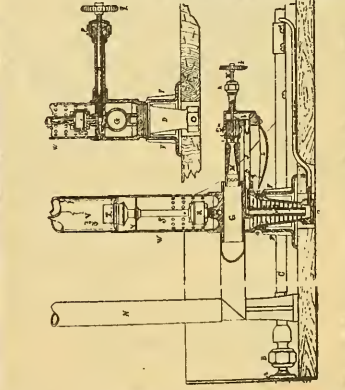
99,925, JAS. W. MARTIN.
WOOD-BENDING MACHINE.

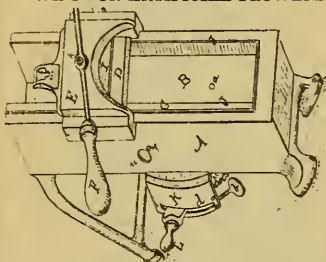
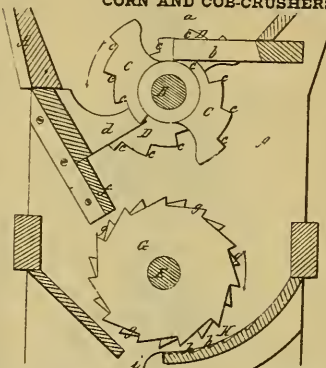
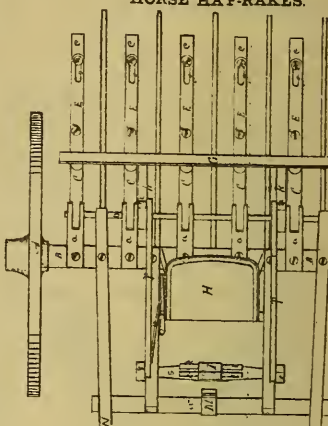


99,926,
J. MATTISON.
FEED-HOPPERS.

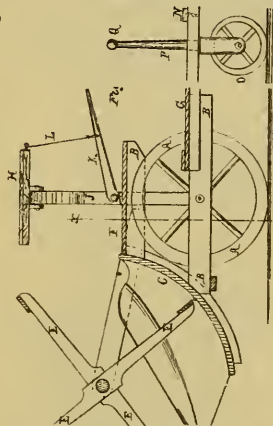


99,927, HIRAM S. MAXIM.
APPARATUS FOR GENERATING
GAS FOR HEAD-LIGHTS.



99,928. MARY JANE McCOLL. CUTTING
WAX FOR ARTIFICIAL FLOWERS.99,933. J. M. MOWRER.
CORN AND COB-CRUSHERS.99,939. JOHN K. O'NEIL.
HORSE HAY-RAKES.

99,929,

J. B. MCCORMICK.
HARVESTERS

99,934. C. MUIR.

STOVE LINING AND FIRE BRICK

99,935. J. MURPHY.

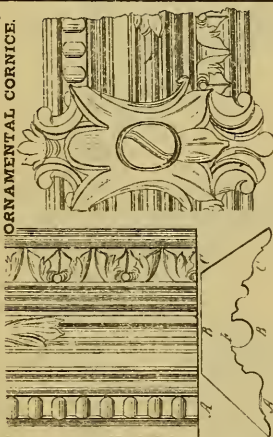
MANUFACTURE OF

INDIA RUBBER AND

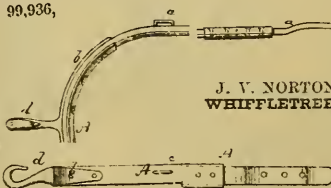
GUTTA PERCHA GOODS.

99,940. WM. H. H. PALMER.
SHINGLE-MACHINE.99,941. EDWARD PARKER.
SCAFFOLD BRACKETS.

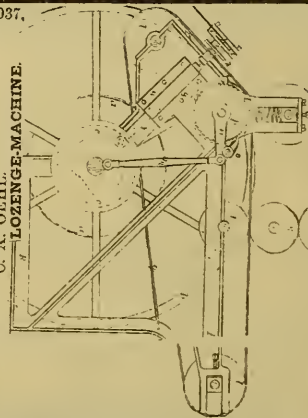
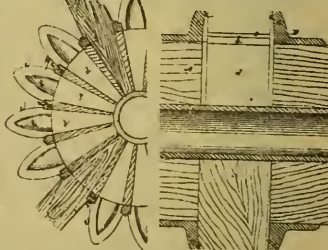
99,930.

THOS. J. MCGEARY.
ORNAMENTAL CORNICE.

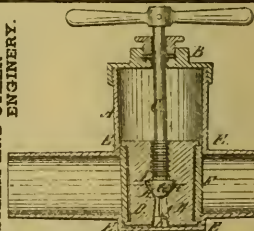
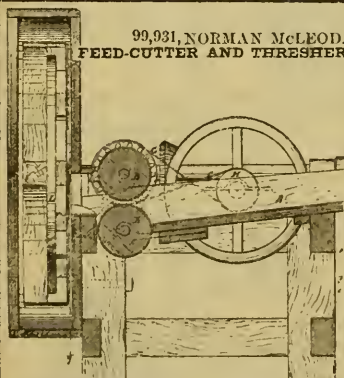
99,936,

J. V. NORTON.
WHIFFLETREES

99,937.

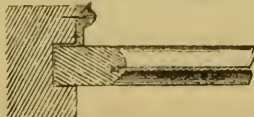
C. A. ORHL.
LOZENGE-MACHINE.99,942. WILLIAM C. PEARSALL.
HUBS FOR CARRIAGE-WHEELS.

99,943.

S. J. PEET.
STOP-VALVES FOR
STEAM AND OTHER
ENGINEY.99,944. S. J. PEET. STOP-VALVES
FOR STEAM AND OTHER ENGINEY.99,931. NORMAN McLEOD.
FEED-CUTTER AND THRESHER

99,932. WILLIAM MILLER.

WEATHER-STRIP.



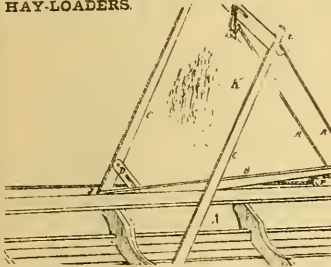
99,945, ANTHONY PEPLE.
PREPARING CERTAIN KINDS OF
COTTON-WASTE FOR CLEANING
MACHINERY



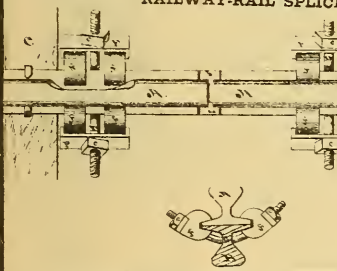
99,946,
CHARLES F. PIERCE.
COMBINED HARROW, ROLLER
AND SEED-SOWER.



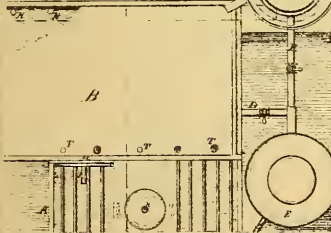
99,947, ALMON E. PRESTON.
HAY-LOADERS.



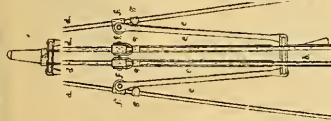
99,948, RD. RANDOLPH.
RAILWAY-RAIL SPLICE.



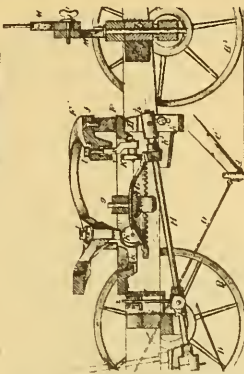
99,949, DEXTER REYNOLDS.
PROCESS AND APPARATUS
FOR THE MANUFACTURE OF SALT.



99,950, HORACE T. ROBBINS.
UMBRELLAS.

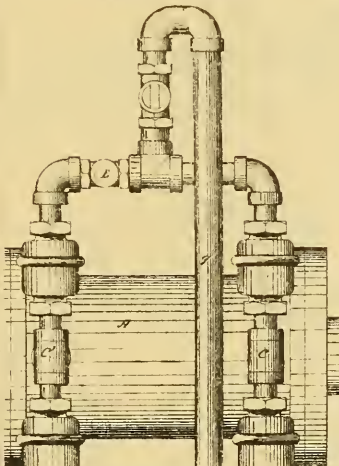


99,951, CYRUS ROBERTS.
JOHN A. TILROP.
HORSE-POWERS.

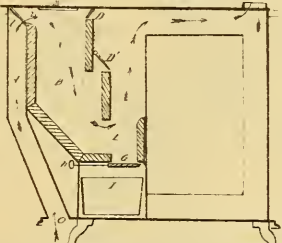


99,952, R. J. ROBERTS.
PLATED NEEDLE

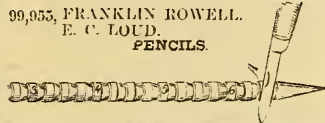
99,953, W. H. ROBERTS.
STEAM PUMPING-ENGINES



99,954, WM. FRAZIER ROSS.
HEATING STOVE.



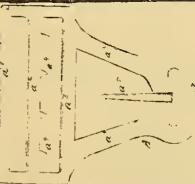
99,955, FRANKLIN ROWELL.
E. C. LOUD.
PENCILS.



99,956, A. D. SCHLESINGER. COLORING
VULCANITE OR HARD RUBBER.

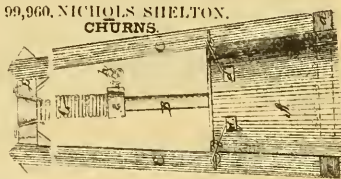


99,957,
JOHN SEAMAN.
HARNESS-HOOK.

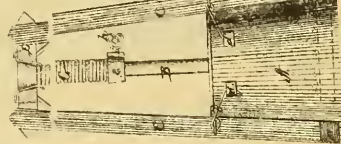


99,958, THOMAS SILAW.
APPARATUS FOR FORGING METALS.

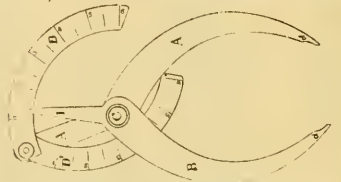
99,959, GEORGE V. SHEFFIELD.
JOHN A. SHEFFIELD.
MEDICAL COMPOUND.



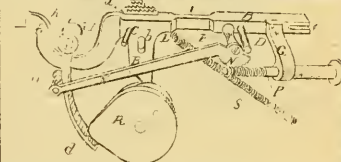
99,960, NICHOLS SHELTON.
CHURNS.



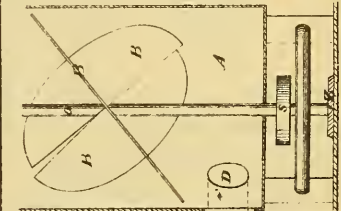
99,961, WM. SLAR. CALIPERS



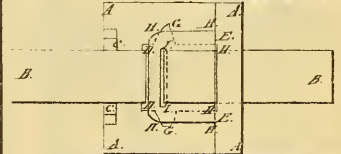
99,962, G. A. SMITH. FEEDING
MECHANISM FOR SEWING-MACHINE.



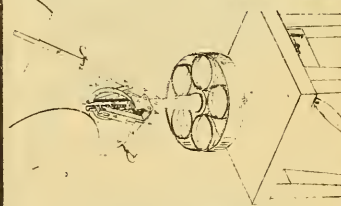
99,963, WILLIAM SMITH.
HOT-AIR FURNACES.



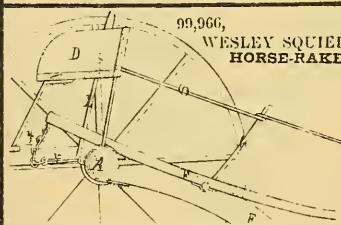
99,964, WILLIAM M. SMITH.
COTTON-BALE TIES



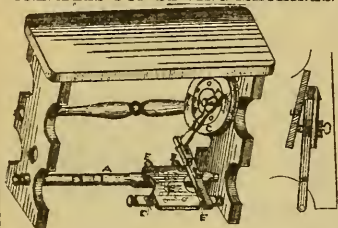
99,965, WILLIAM M. SMITH.
TABLE CASTER.



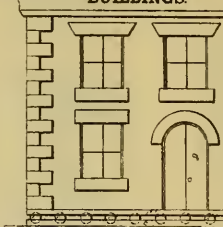
99,966,
WESLEY SQUIER.
HORSE-RAKE.



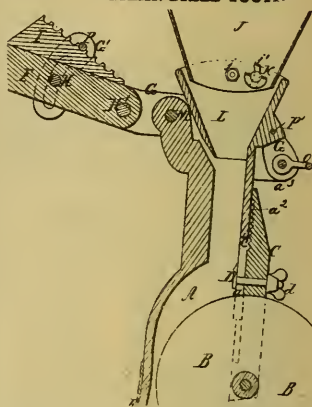
99,967, FREDERICK STAMLER.
TREADLES FOR SEWING-MACHINES.



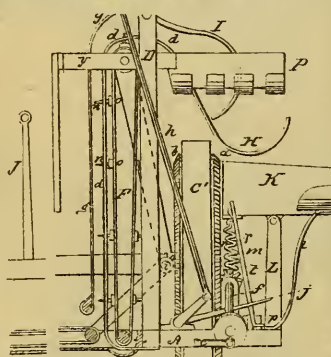
99,973, JULES TOUAILLON.
BUILDINGS.



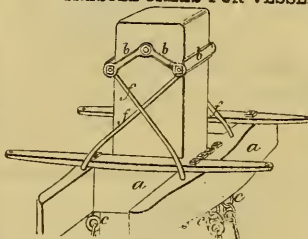
99,981, FREDERICK VILLARD.
GRAIN-DRILL TOOTH



99,968, L. B. STILSON.
GRAIN HARVESTER AND BINDER.

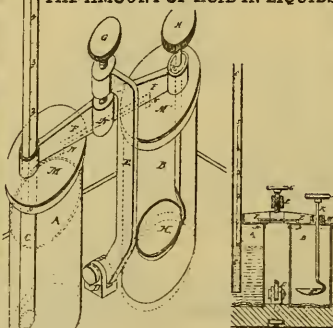


99,974, HENRY TOWNSEND.
TRESTLE-TREES FOR VESSELS.



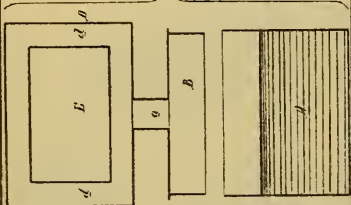
99,975, H. W. C. TWEDDLE.
MANUFACTURE OF PARAFFINE AND

99,976, HENRY TWITCHELL.
APPARATUS FOR ASCERTAINING
THE AMOUNT OF ACID IN LIQUIDS.

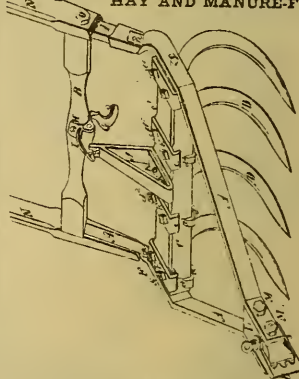


99,969, DAVID STUART.

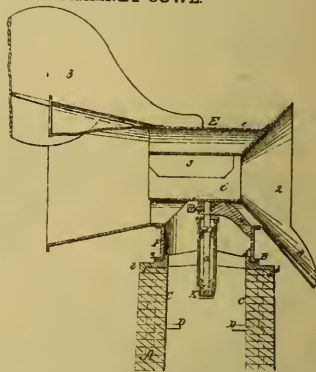
COOKING-STOVES.



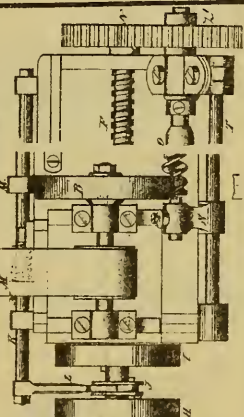
99,982, FREDERICK VILLARD.
HAY AND MANURE-FORK



99,983, FRIEDRICH VILLARD.
CHIMNEY-COWL.

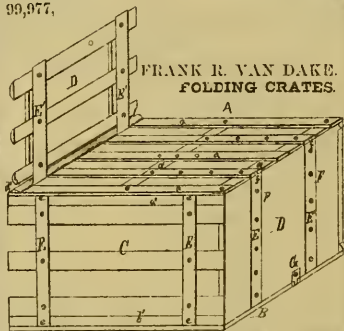


99,970, JAMES SWAN, MACHINE FOR
GRINDING AND POLISHING BITS.

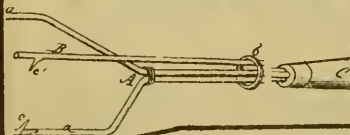


99,977,

FRANK R. VAN DAKE.
FOLDING CRATES.



99,971, HARRISON H. TAYLOR.
GEO. H. GRAHAM.
TOASTING-FORK.



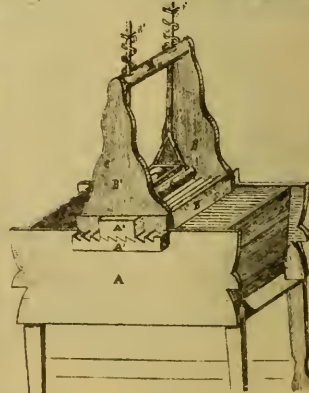
99,978, ANTHONY VAN HAAGEN
WM. ADAMSON.
FERTILIZER FROM GLUE RESIDUUM

99,979, ANTHONY VAN HAAGEN.
WM. ADAMSON
SOAP PRODUCT FROM GLUE RESIDUUM

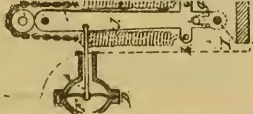
99,980, JEROME A. VAUGHN.
HORIZONTAL WIND-WHEELS.

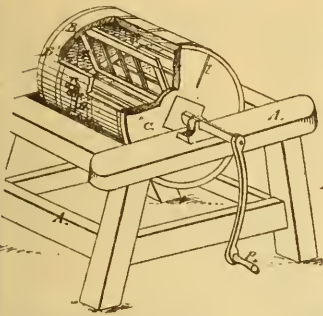
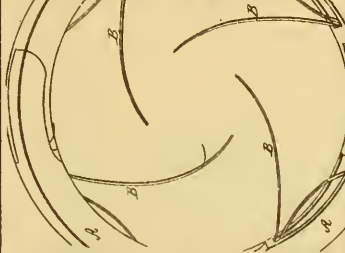


99,984, JOHN V. WACKERMAN.
WASHING-MACHINE.

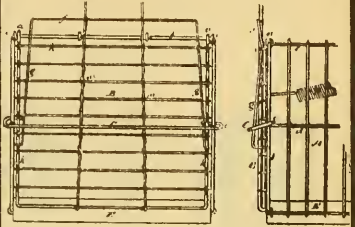
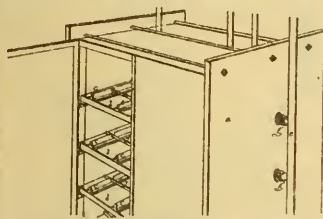


99,972, ALBERT H. TINGLEY.
AUTOMATIC HEAT-REGULATOR
FOR HOT-AIR FURNACES.

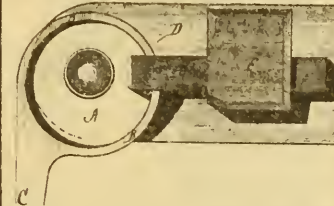
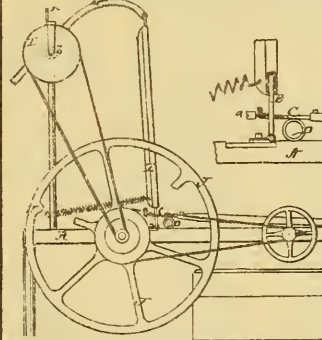
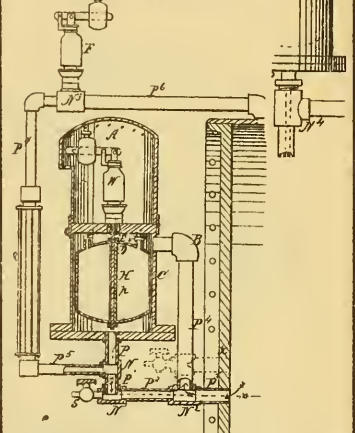
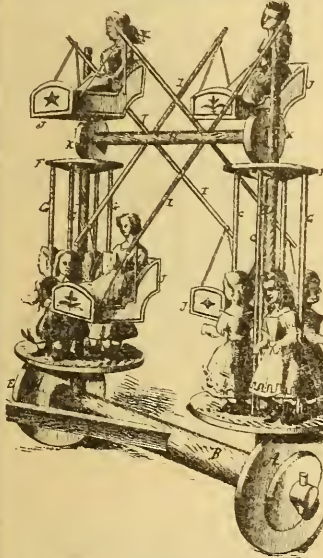
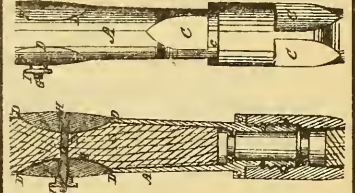
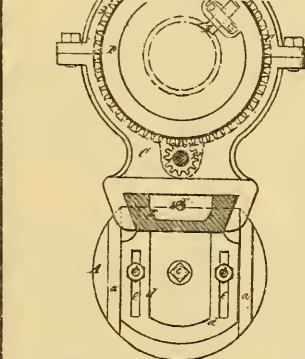
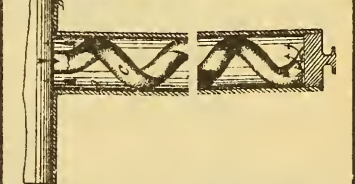


99,985, FRIEDRICH WEGNER.
CHARLES SCHLEETER. CHURNS.99,990, JEROME WHEELOCK.
STEAM PISTON PACKING.

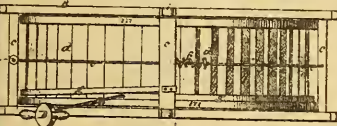
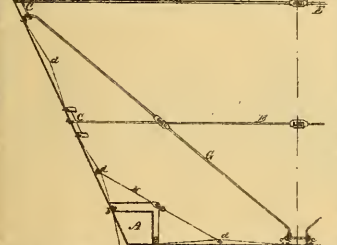
99,995, WM. F. COLLIER. ANIMAL TRAP.

99,986, WILLIAM WELCH.
APPARATUS FOR DIFFUSING VAPORS
THROUGH CUSHIONS, MATTRESSES,

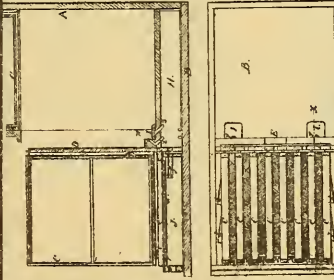
99,991, SILAS WHITMAN. CAM-LEVERS.

99,992, H. WILKINS.
WILLIAM H. SANGSTER.
MOTIVE-POWER APPARATUS.99,996, ROBT. BERRYMAN.
LOW-WATER INDICATOR99,987, ROBERT WENT.
COMBINATION TOY.99,997, ADAM GOOD, JR.
COUPLINGS FOR OIL WELLS
SUCKER-ROD99,993, NATHAN WRIGHT.
MACHINE FOR RE-TURNING
CRANK-PINS OF LOCOMOTIVES.99,998, JOHN C. STEVENS. CIRCULATING-
TUBE FOR STEAM-GENERATORS.

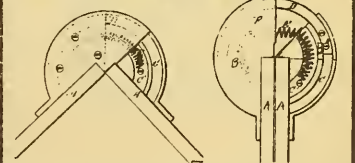
99,988, H. M. WHEELER. WINDMILLS.

99,989, ALPHEUS WHEELOCK.
METALLIC ABUTMENTS FOR BRIDGES.

99,994, JOHN M. YOUART. BEE-HIVES.

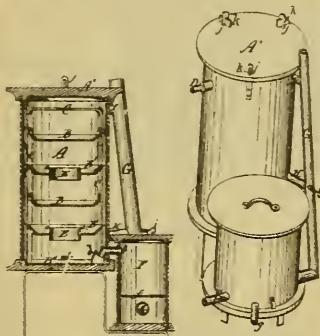
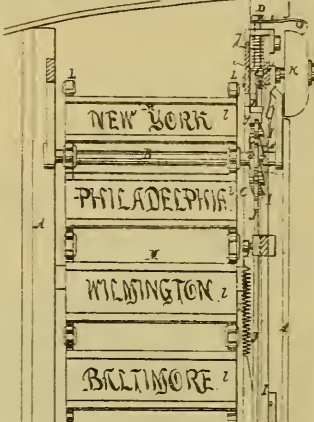
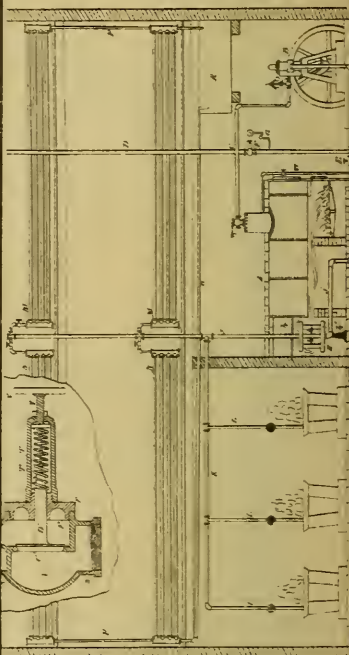
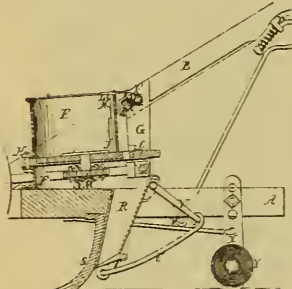
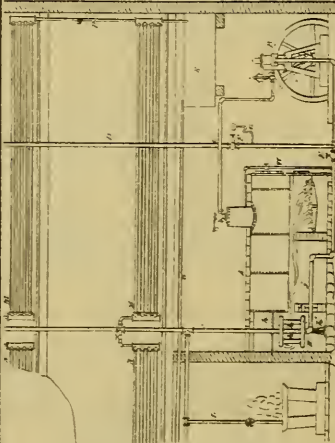
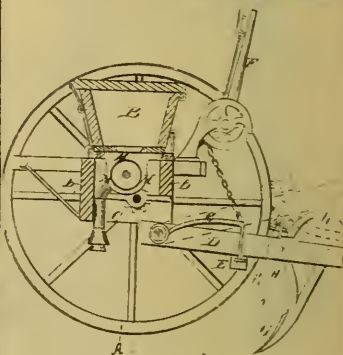


99,999, TIMOTHY SMITH. HINGES.

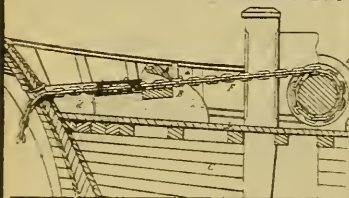
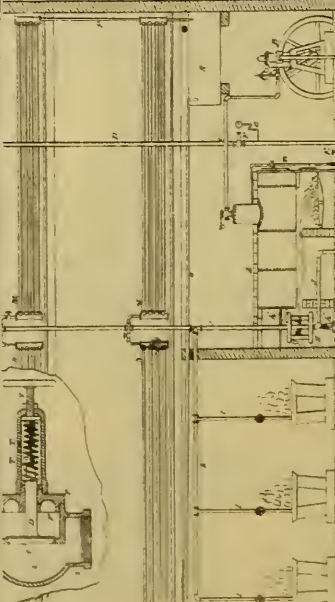
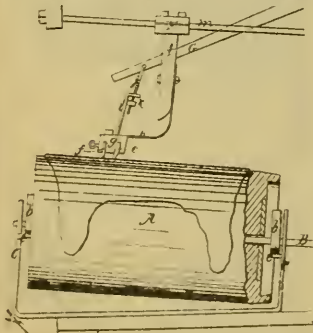
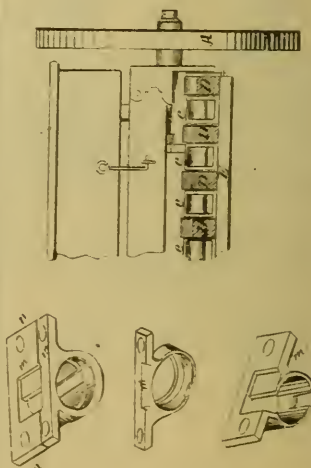
3,834, JAMES ARMSTRONG.
FEED WATER HEATERS AND FILTERS.

3,833, WM. W. AVERELL.

MANUFACTURE OF CAST-STEEL

3,841, AMOS C. RODGERS.
LEWIS SHAFFER.
RAILROAD-STATION INDICATORS.3,843, JOSEPH SHACKLETON.
STEAM-HEATER3,836, JAMES CAMPBELL.
WILLIAM CAMPBELL.
CORN-PLANTERS.3,842, JUNIUS SCHENCK
MANUFACTURE OF HOSE, TUBING,
AND OTHER RUBBERFABRICS.3,843, JOSEPH SHACKLETON.
STEAM-HEATER3,846, W. A. VAN BRUNT.
SEEDING-MACHINES.3,837, JOSEPH H. DEACON. ALCOHOLIC
LIQUOR FROM THE RHUBARB PLANT.3,838, J. J. EMERY.
E. R. CHENEY.

SURGE-RELIEVERS.

3,844, JOSEPH SHACKLETON
STEAM-HEATER3,839, HENRY LAMPERT. APPARATUS
FOR SCRAPING AND WORKING HIDES.3,840, ORAZIO LUGO
GUANO FROM FISH
MANUFACTURE OF FERTILIZERS OR

ILLUSTRATIONS OF PATENTS

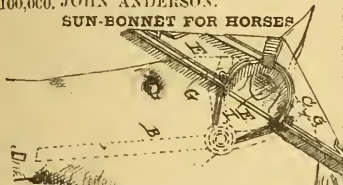
ISSUED FROM

THE UNITED STATES PATENT OFFICE

FEBRUARY 22, 1870.

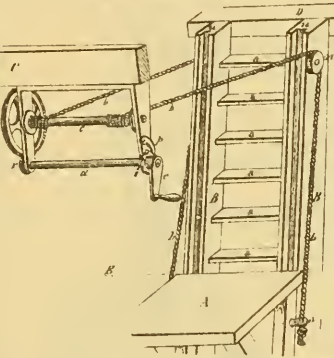
100,000, JOHN ANDERSON.

SUN-BONNET FOR HORSES

100,005, MARCAR WAHRAM BEYLIKOV.
MANUFACTURE OF WATER-PROOF
FABRICS FROM WASTE RUBBER.

100,006, HENRY L. BOWERS.

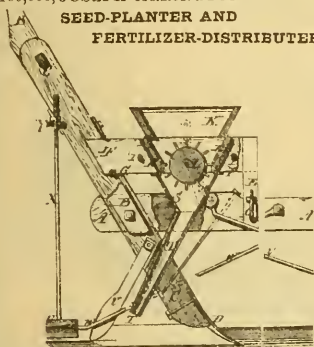
CELLAR-HOIST OR ELEVATOR.



100,012, A. B. CALDWELL, UMBRELLAS.

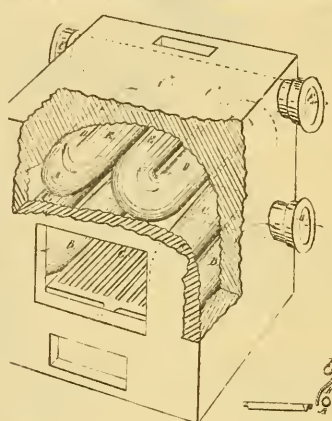


100,001, JOSEPH ARRINGTON.

SEED-PLANTER AND
FERTILIZER-DISTRIBUTER.

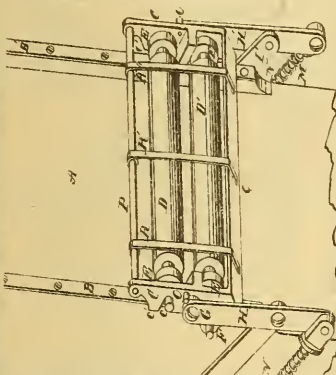
100,013, S. E. CHUBBUCK.

WATER-HEATER FOR GREEN-HOUSES.



100,002, HENRY BARTH

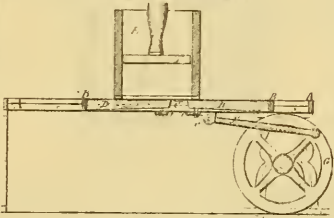
PRINTING-PRESSES.



100,007, CHAS. J. MANN.

WM. A. BOYDEN.

VEGETABLE-CUTTERS.



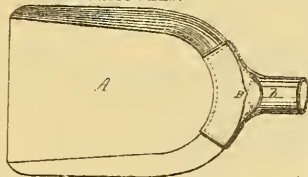
100,014, ELBERT P. COOK.

IMPROVED HEAD-REST.

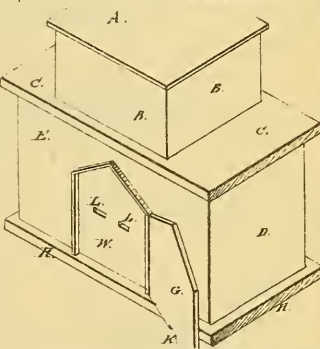
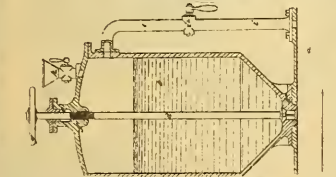


100,008, JAMES F. BREWER.

COAL-SHOVELS.

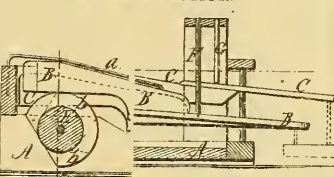


100,015, H. B. COOPER, BEE-HIVES.

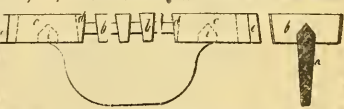
100,003, HENRY BESSEMER, PROCESSES
AND APPARATUS FOR THE
MANUFACTURE OF IRON

100,009, JOHN C. BRIGGS.

MELODEON ACTION.

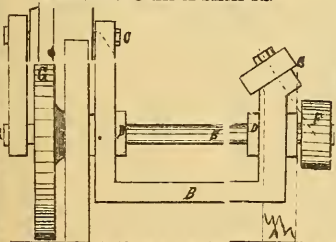


100,016, THOMAS S. DAVIS, GRATE-BARS.



100,004, JAMES M. BEUTLER.

HANGING CRANK-SHAFTS.



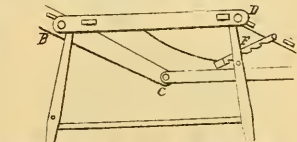
100,010, LORENZO BROWN.

SEAT-FASTENERS.

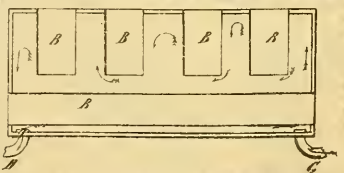


100,011, WILLIAM A. BURY.

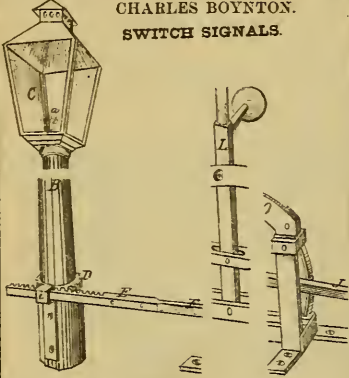
RECLINING CHAIR.



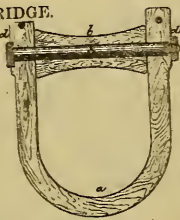
100,017, JOS. M. DE LACY.

STEAM-HEATER
FOR BURNISHING-IRONS.

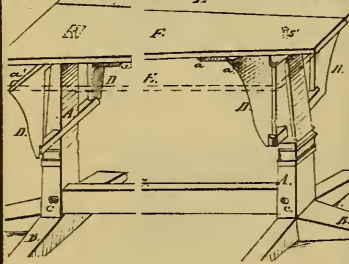
100,018, HENRY A. EFNER.
CHARLES BOYNTON.
SWITCH SIGNALS.



100,019, H. K. ELDRIDGE.
JIB-HANKS
FOR VESSELS.



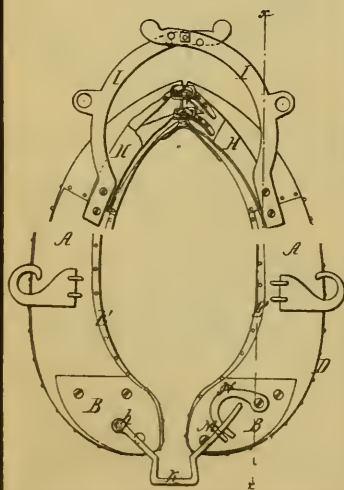
100,020, THOS. ELKINS. DINING AND
IRONING-TABLE AND QUILTING-FRAME.



100,021, JOHN FAUNCE.
MARINE DRAG.



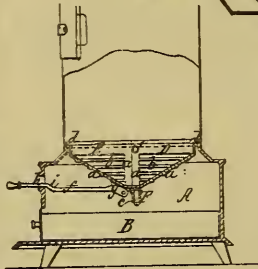
JAS. H. FERGUSON. COLLAR
100,022 AND HAME FOR HARNESS.



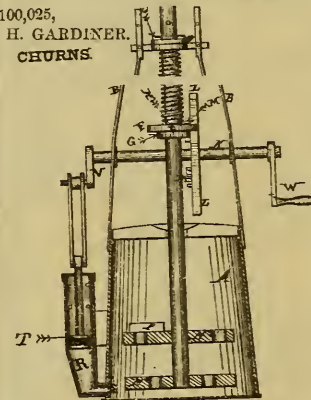
100,023 OSWALD S. FREELAND.
NUT-LOCK.



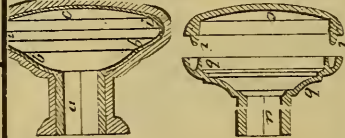
100,024, GEO. FROH.
STOVE-GRATE.



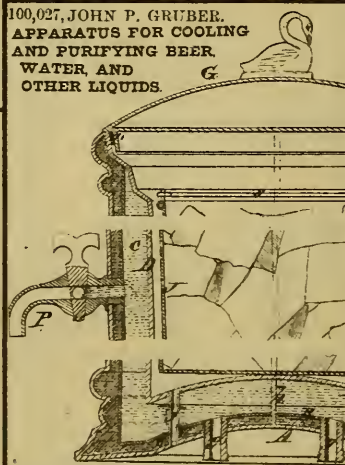
100,025,
H. GARDINER.
CHURNS.



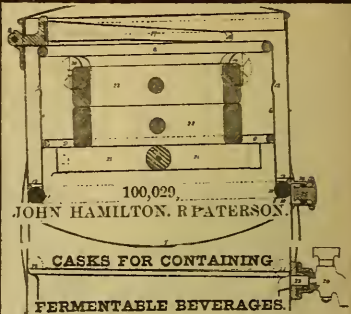
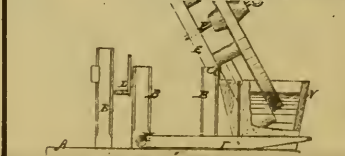
100,026, JOHN W. GROGAN DOOR-KNOBS.



100,027, JOHN P. GRUBER.
APPARATUS FOR COOLING
AND PURIFYING BEER,
WATER, AND
OTHER LIQUIDS.

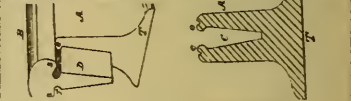


100,028, C. B. GUY.
TIRE-SETTING
AND COOLING APPARATUS.

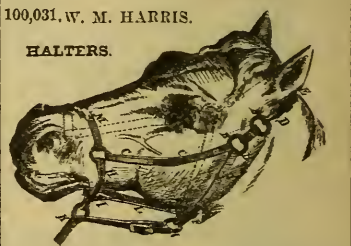


100,029,
JOHN HAMILTON, R. PATERSON.
CASKS FOR CONTAINING
FERMENTABLE BEVERAGES.

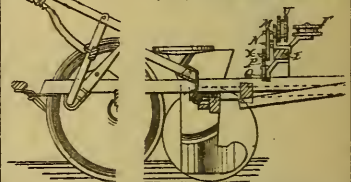
100,030, ALONZO HANMER, DAVID GRIM.
RAILWAY-RAIL.



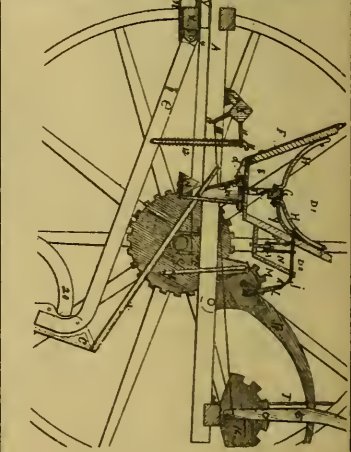
100,031, W. M. HARRIS.
HALTERS.



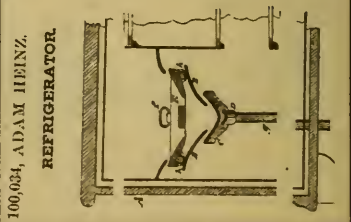
GEO. D. HAWORTH
100,032, CORN-PLANTERS.

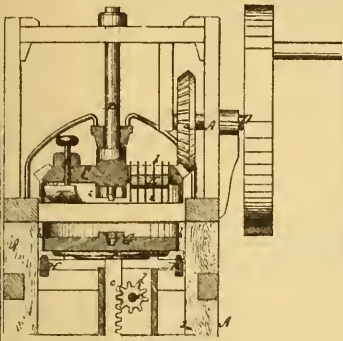
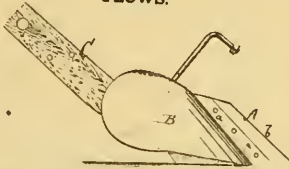
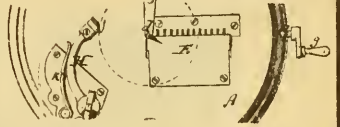
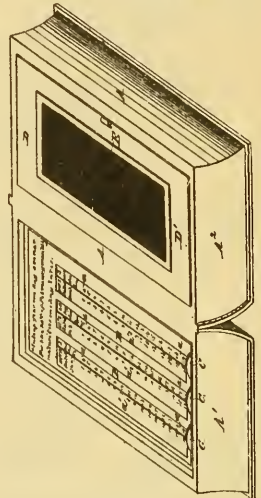
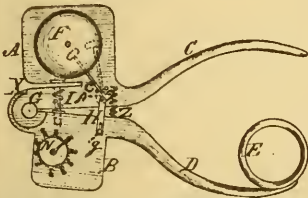
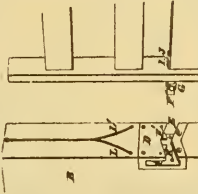
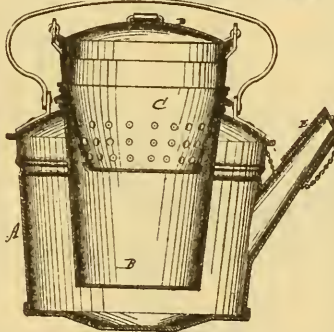
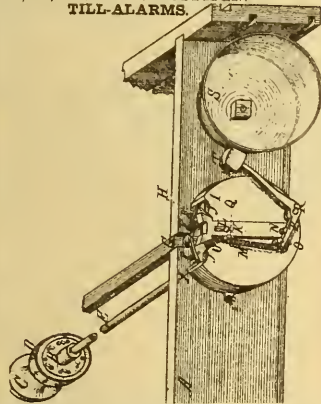
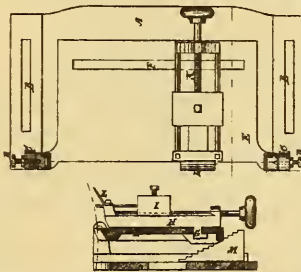
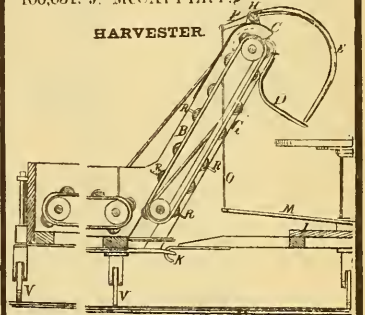
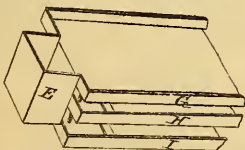
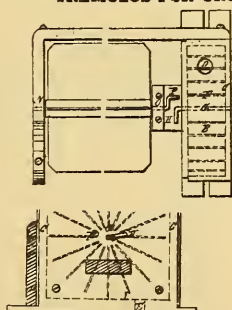
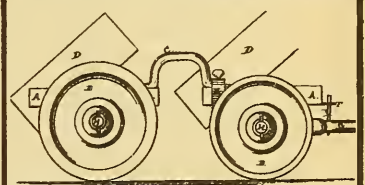
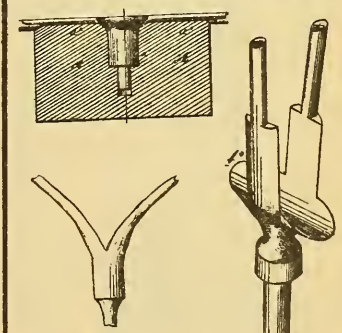


100,033, M. HAYDEN. GRAIN-DRILLS.

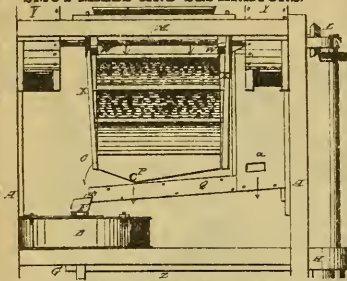


100,034, ADAM HEINZ.
REFRIGERATOR.

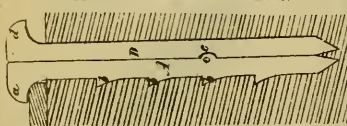


100,035, WILLIAM B. HEINTZE.
MEAT-CUTTER100,042, A. C. JUDSON.
FLOWS.100,049, JOHN SCHULTHEIS, GEORG LUTZ,
MICHEL FLORENTIN.
VEGETABLE-CUTTER100,043, MARTINUS B. KIMM.
COMPOUND TO REMOVE GREASE
FROM CLOTH, SILK, PAPER.100,050, S. E. MANDELBAUM.
COMMERCIAL PORTFOLIOS.100,036, AUSTIN D. HOFFMAN.
REGISTERING-PUNCH
FOR RAILROAD CONDUCTORS.100,044,
JAMES KINDEL.
LATCHES FOR GATES.100,045, G. LANDRINE.
CULINARY VESSEL.100,037, AUSTIN D. HOFFMAN.
TILL-ALARMS.100,046, JAS. H. DAVIS.
ZEPHANTAH A. F. LEFEBERE.
CLASPS FOR SECURING
WHIP-SOCKETS
TO DASH-BOARDS.100,047, PHILIP LEONARD. TOOL-HOLDER
FOR GRINDSTONES.100,051, J. McCAFFERY.
HARVESTER.100,038, JAMES SPOONER HOWARD.
ELECTROPLATING WITH ANTIMONY.100,039, WILLIAM H. H. IRWIN.
COMPOUND FOR CURE
OF COUGHS, COLDS.100,040, NATHAN L. ISGRIGG.
CULTIVATORS.100,041, JAMES JACOBS.
STEAM-GENERATORS.100,048, JOHN R. LOMAS.
TREMOLOS FOR ORGANS.100,052, EDWARD MILLER.
DUMPING-WAGON.100,053, R. R. MILLER.
SERIES OF DIES FOR FORMING
THE HEADS OF KING-BOLTS.

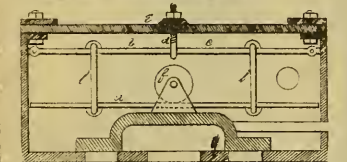
100,054, JNO. MILLS.
A. G. WALDO.
SMUT-MILLS AND SEPARATORS.



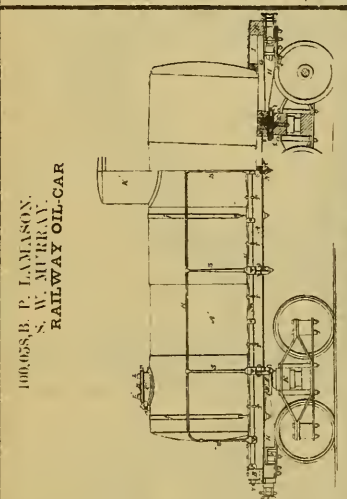
100,055, JAMES MONTGOMERY.
SPIKES FOR RAILWAYS.



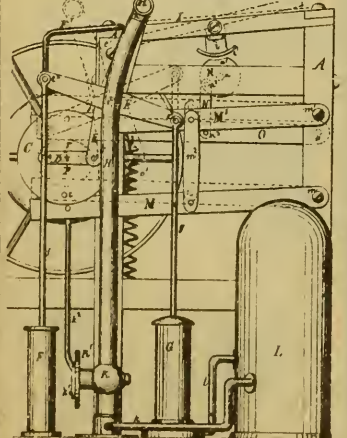
100,056, GEO. R. MOORE.
BALANCE SLIDE-VALVE



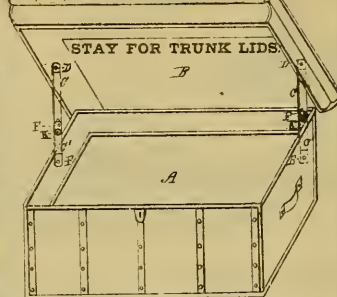
100,057, J. T. MULKY.
OINTMENT FOR BRUISES, BURNS, &c.



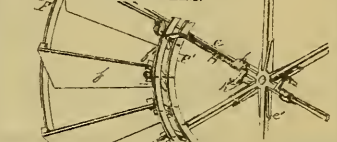
100,059, OLIVER NORELICUS.
PAPER-FEEDERS.



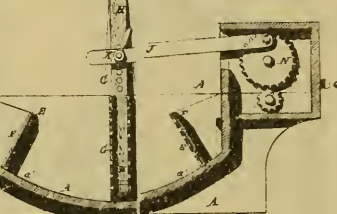
100,060, DANIEL C. O'CONNOR.



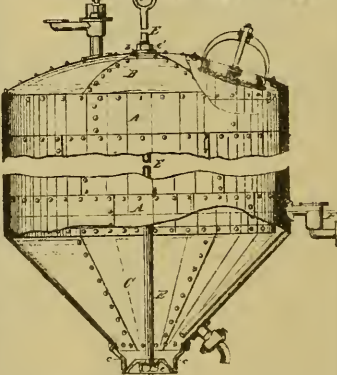
100,061, WALTER PECK.
WINDMILLS.



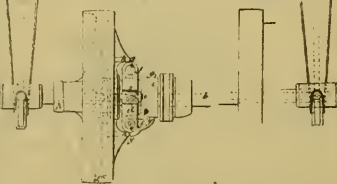
100,062, BENJAMIN PINE.
WASHING-MACHINE.



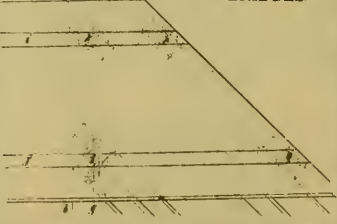
100,063, DAVID PINGER. TANKS FOR
RENDERING LARD.



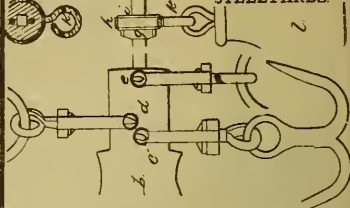
100,064, FRANCIS A. PRATT.
FRICTION-CLUTCHES.



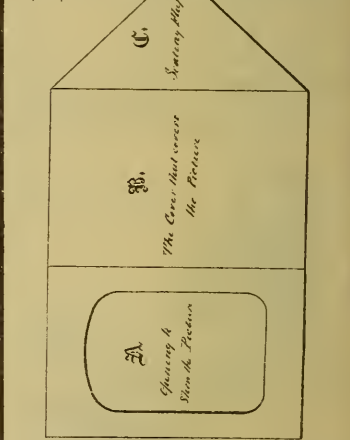
100,065, T. WILLIS PRATT.
DRAW-BRIDGES.



100,066, WILLIAM B. PRESTON.
STEELYARDS.



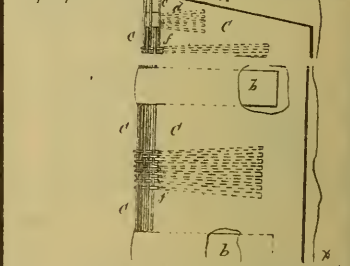
ROBERT PRICE, PICTURE ENVELOPES
100,067,



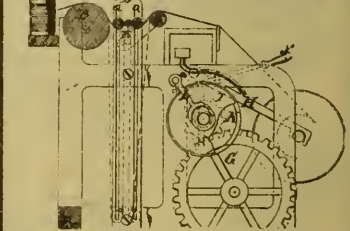
100,068, JAMES E. REQUA.
THOROUGH-BRACES.



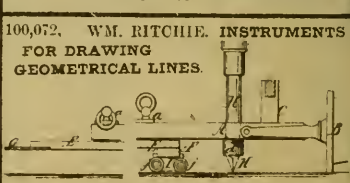
GEO. H. REYNOLDS, BOOK-BINDING.
100,069,



100,070, ROSCOE C. REYNOLDS,
CYRUS I. BARKER.
WARPING-MACHINES.

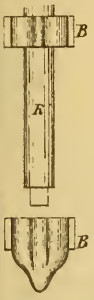
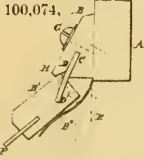
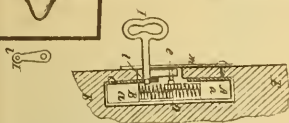


100,071, EDWIN T. RICE.
PROCESS OF BLEACHING
AND CLEANING VEGETABLE FIBERS.

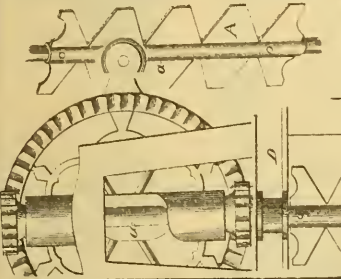
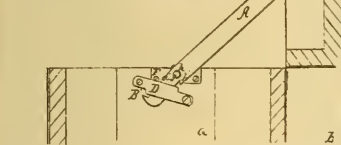
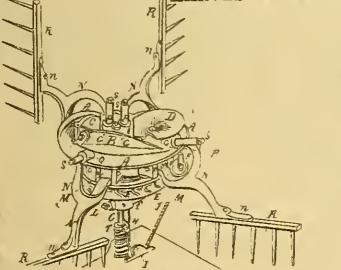
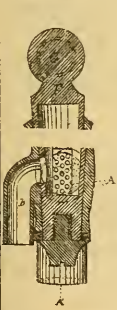
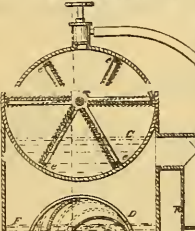
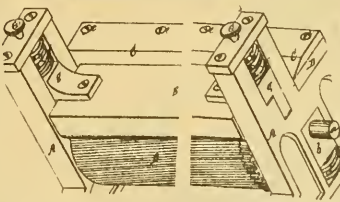
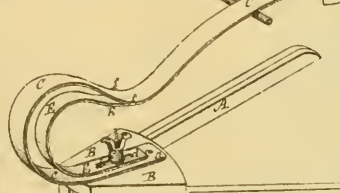
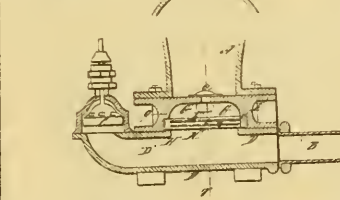
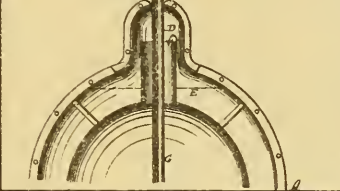


100,072, WM. RITCHIE. INSTRUMENTS
FOR DRAWING
GEOMETRICAL LINES.

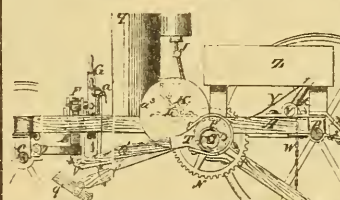
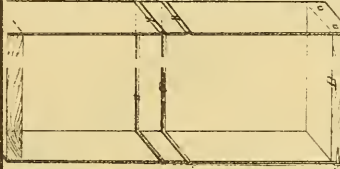
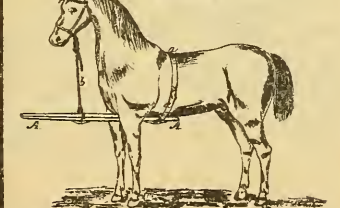
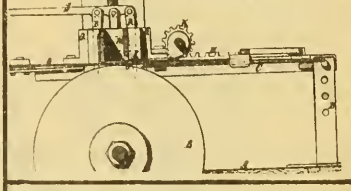
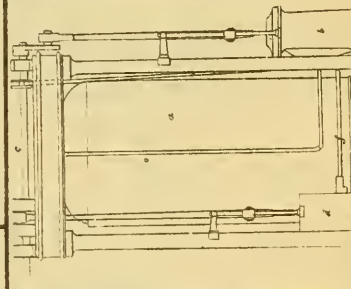
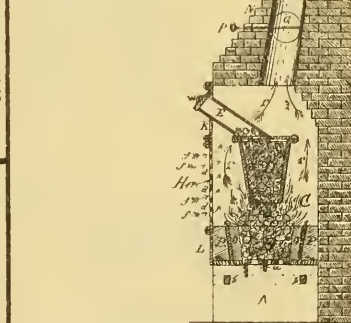
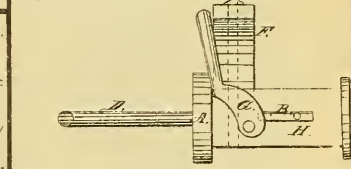
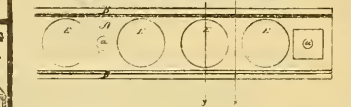
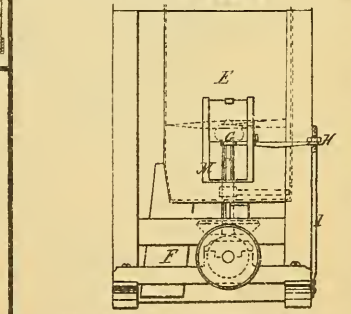


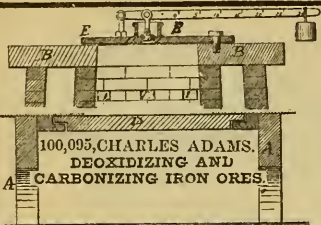
JOHN R. ROBERTSON.
100,073, STOVE-SHELF.HORACE A. ROBISON.
WEATHER-STRIP.CHARLES W. ROCKHOLD.
100,075, SASH-HOLDERS.

100,076, RICE FARRAR ROSS. CHURNS.

EDWARD SEMPLE.
100,077, TRUNK-STAY.100,078, DAVID B. SHIRK.
HARVESTER-RAKES.100,079, MONTGOMERY P. SIMONS.
FAUCET-FILTERS.WILLIAM SNODGRASS
100,080, PORTABLE
GAS-GENERATOR.100,081, WM. D. ST. CLAIR.
COMPOUND TO BE USED
AS AN ARTICLE OF DIET.100,082, CALEB S. STEARNS.
LEATHER-SPLITTING MACHINE100,083, MATHIAS STEPHAN.
SPRING-CHAIR
FOR CHILDRENKIMBALL W. STETSON.
WATER-RAMS.
100,084.C. J. STOLBRAND. STEAM-GENERATOR.
100,085.

100,086, E. P. TALCOTT. STEAM-WAGONS.

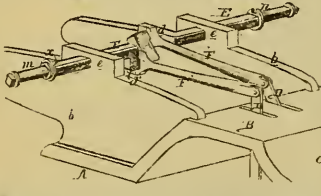
GEO. E. TUCKETT. CASE FOR CURING
100,087, AND TRANSPORTING TOBACCO.100,088, MYRES J. VAN AKEN.
HORSE-POKE100,089, GEO. WALKER.
SAW-GRINDING
MACHINE100,090, GEORGE WARSOFF.
STEAM AND AIR-ENGINE.100,091, JOHN G. WHITE.
MALT-KILNS100,092, JOHN WHITEFORD.
CAR-COUPLING.100,093, LEWIS F. WHITING
FRANKLIN SMITH. SAFES.100,094, BENJAMIN A. WING.
BOLT-FEEDERS FOR MILLS.



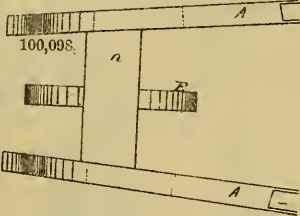
100,096, HENRY A. ALDEN.
VULCANIZED RUBBER HOSE.



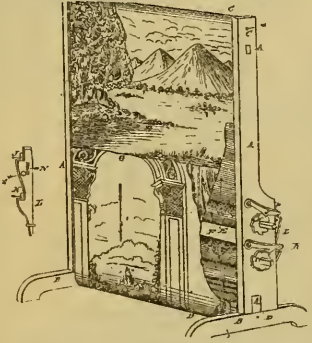
100,097, JOHN ALLGAIER.
HAND-MOTIVE CARRIAGES.



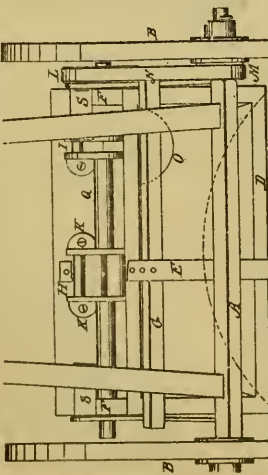
HENRY ALTER, WHEELBARROWS.



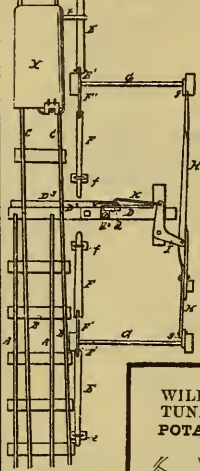
100,099, JONAS A. ANDERSON.
PHOTOGRAPHIC SCREENS.



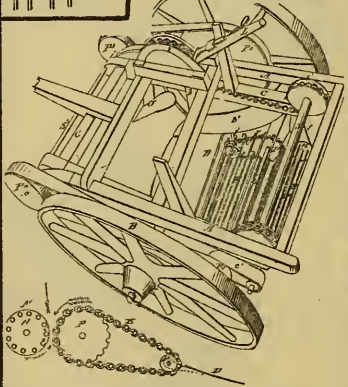
100,100, WILLIAM S. ARCHER.
BROADCAST SEEDERS.



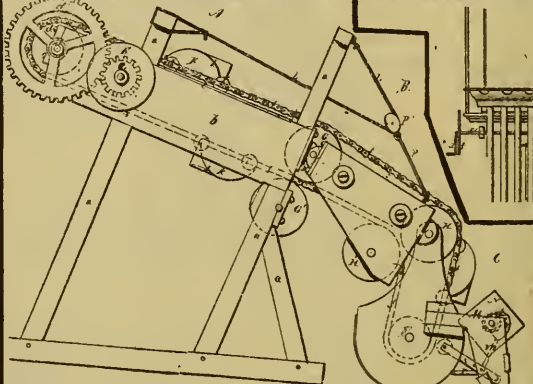
100,101, JOHN L. ARMS.
RAILROAD-SWITCH.



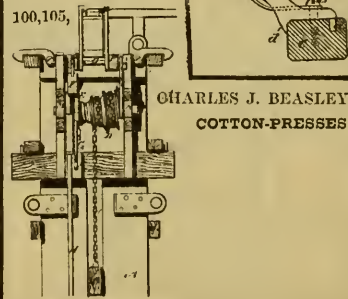
100,102,
WILLIAM J. AVERY,
TUNIS LABERTEAUX.
POTATO-CULTIVATOR
AND DIGGER.



100,103, A. S. BAILEY.
IMPROVEMENT IN COAL-ELEVATORS.

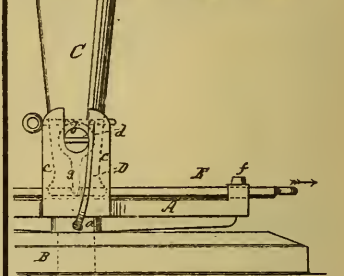


100,104, A. B. BARNARD.
HORSE HAY-RAKES.

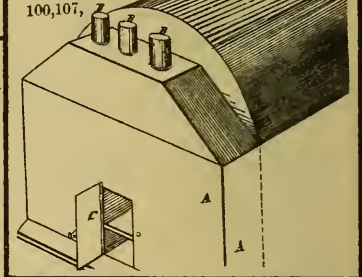


CHARLES J. BEASLEY.
COTTON-PRESSES.

100,106, C. J. BEASLEY.
ALARM-GUNS.



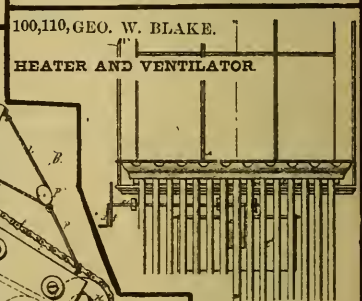
OSCAR BELLMAN.
JOHN W. GARVER, HOT-AIR FURNACE.



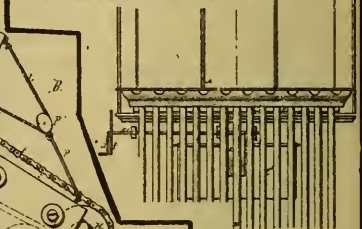
100,108,
C. S. BENJAMIN,
EDWARD STORY.
PAINT-BRUSH



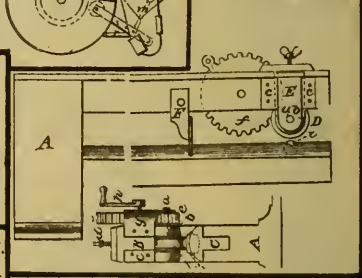
100,109, F. B. BINGHAM.
MANUFACTURE OF PAPER.



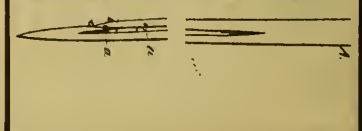
100,110, GEO. W. BLAKE.
HEATER AND VENTILATOR.

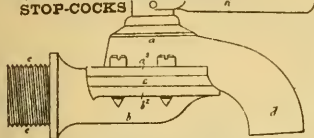
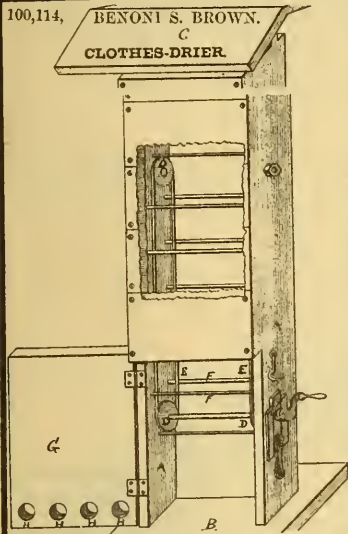
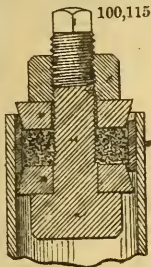
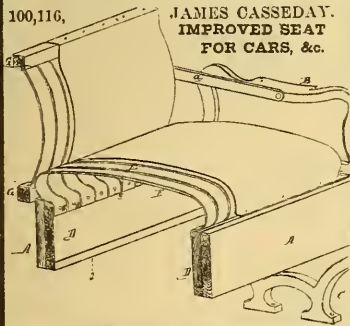


100,111,
C. F. BLIESENICK.
MACHINE FOR
GROOVING
SHEET-METAL.



100,112, JOHN L. BOONE.
NEEDLE FOR SEWING-MACHINE.



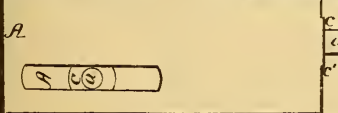
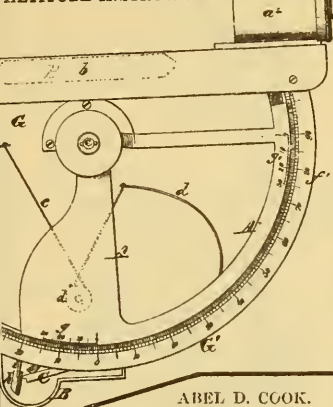
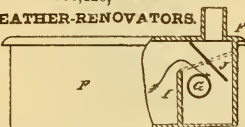
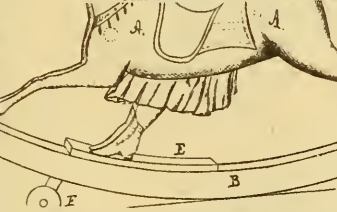
100,113 JOSEPH BREEDEN.
STOP-COCKS.100,114, BENONI S. BROWN.
CLOTHES-DRIER.100,115, WILLIAM BROWN.
TUBE-STOPPER.100,116, JAMES CASSEDAY.
IMPROVED SEAT
FOR CARS, &c.

100,117, THOS. CHADWICK.

PORTABLE FURNACES.

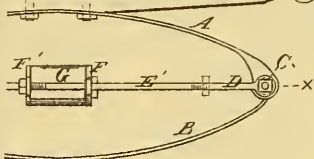
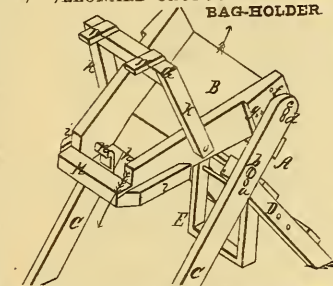
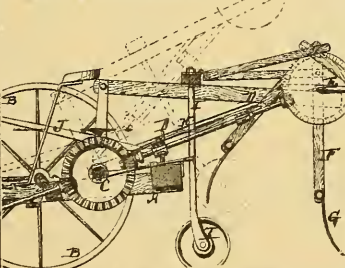
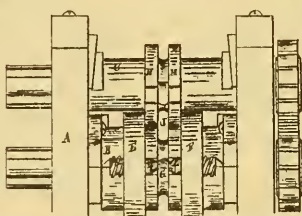


100,118, MILTON W. CLARK. BLIND-SLAT.

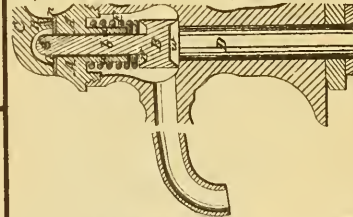
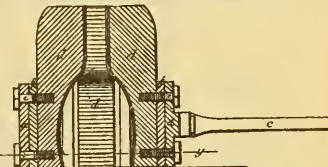
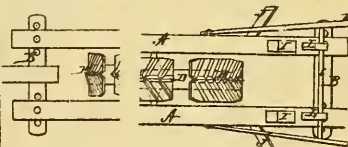
100,119, HALL COLBY.
ALTITUDE INSTRUMENT.ABEL D. COOK.
100,120, JAMES GRAVES.
FEATHER-RENOVATORS.100,121, WM. E. GRANDALL.
CHILDREN'S CARRIAGES

JOHN N. CRANNELL.

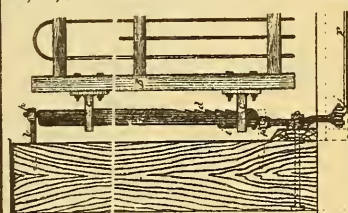
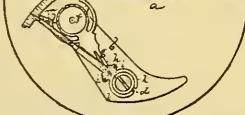
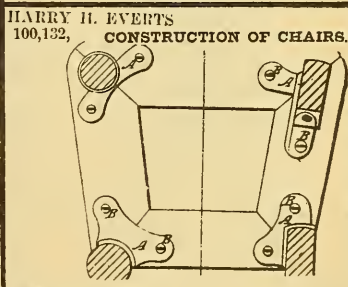
100,122, WAGON-SPRING.

100,123, LEONARD CROFOOT.
BAG-HOLDER.100,124, J. H. DATER.
MOWING-MACHINE
AND HAY-TEDDER.100,125, WILLIAM DAVIS.
JOSEPH WHILE. MACHINE FOR
ROLLING CAR-COUPLING PINS.

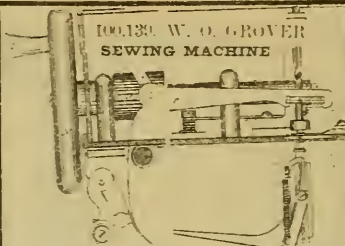
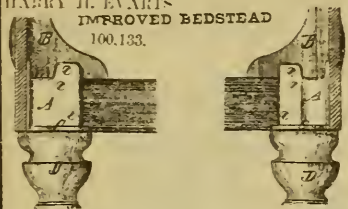
100,126, JAMES M. A. DEW. FAUCETS.

100,127, HIRAM DILLAWAY. MOLD FOR
FORMING BLOWN GLASSWARE.100,128 JOHN D. DUNN. COMBINED
COTTON-CHOPPER AND CULTIVATOR.

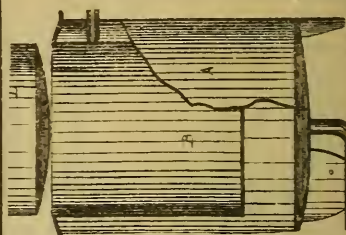
100,129, CHARLES H. EGGLESTON. GATES.

100,130, D. W. ELDRIDGE.
WATCH-REGULATORS.100,131, JAMES B. ELKINGTON.
MANUFACTURE OF COPPER
AND IN SEPARATING OTHER
METALS THEREFROM.

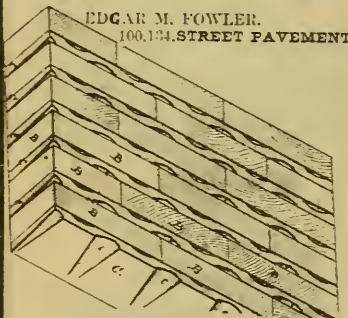
HARRY H. EVARTS.
IMPROVED BEDSTEAD
100,133.



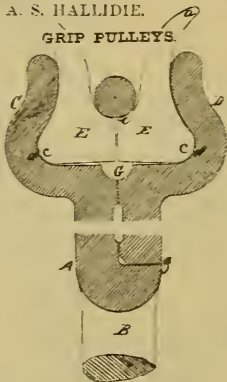
100,139. W. O. GROVER
SEWING MACHINE



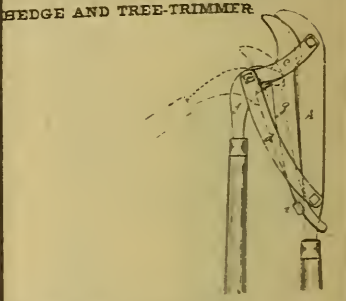
EDGAR M. FOWLER.
100,134. STREET PAVEMENT



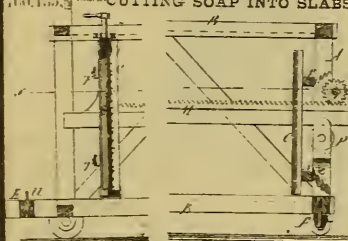
100,140.
A. S. HALLIDIE.
GRIP PULLEYS.



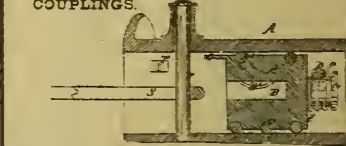
100,145. CALEB E. HEALY.
BEDGE AND TREE-TRIMMER



JOSEPH E. GALLIPO.
100,155. MACHINE FOR
CUTTING SOAP INTO SLABS.



100,146. THOS. R. HERD.
RAILWAY-CAR
COUPLINGS.



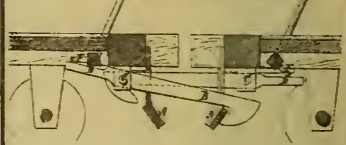
BENJAMIN M. GARD.
EMERY R. GARD.
100,136. BRICK-MACHINES.



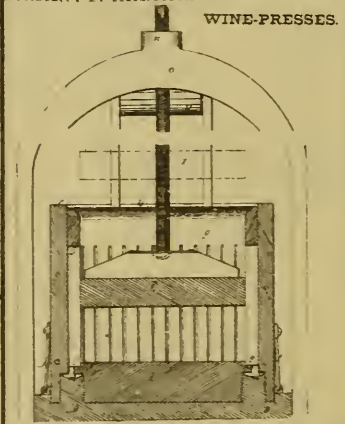
100,141. JOSEPH HARRISON, JR.
STEAM-GENERATORS



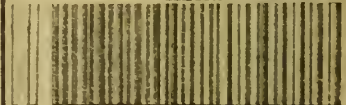
100,147
THOMAS HESS.
COUPLING CARS



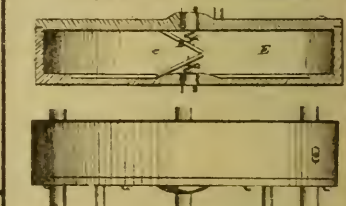
100,142. C. F. HARTMANN.
WINE-PRESSES.



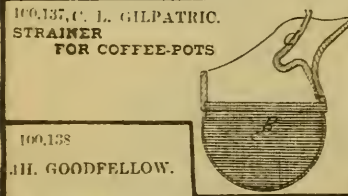
100,148. T. N. HICKCOX.
METALLIC ROOFING



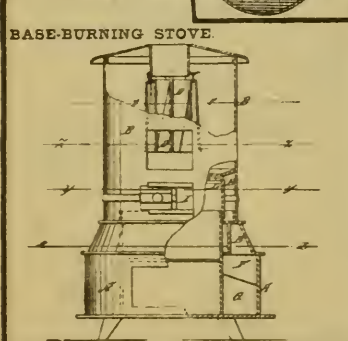
100,149. JACOB W. HILL. ROTARY STEAM
THOMAS ROBERTS. ENGINE



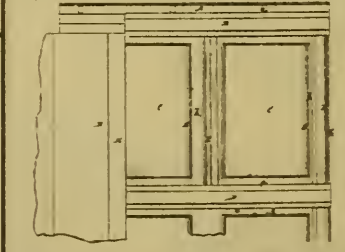
100,137. C. L. GILPATRIC.
STRAINER
FOR COFFEE-POTS



100,138
J. H. GOODFELLOW.
BASE-BURNING STOVE.



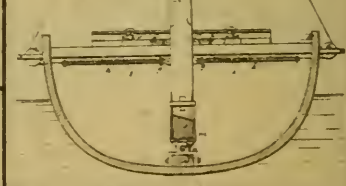
100,143. GEORGE HAYES. SKY-LIGHTS.



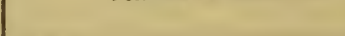
100,150. LOCK FOR WAGON-SEATS.
EDGAR HITT



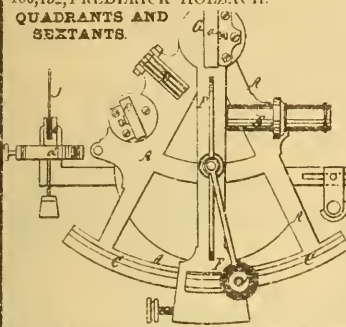
EDGAR E. HOLLY. MASTS OF VESSELS.
100,151.



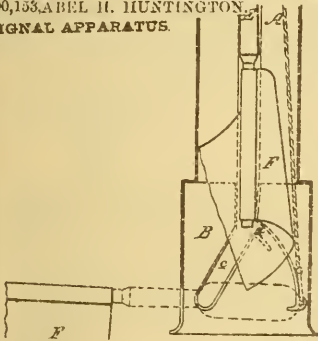
100,144. H. K. HAZLETT.
FEED-WATER PURIFIER
FOR STEAM-GENERATORS.



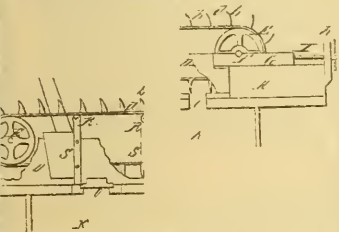
100,152, FREDERICK HOLZACH.
QUADRANTS AND
SEXTANTS.



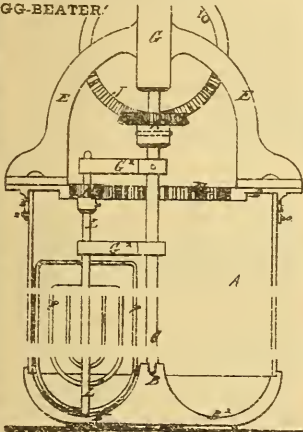
100,153, ABEL H. HUNTINGTON.
SIGNAL APPARATUS.



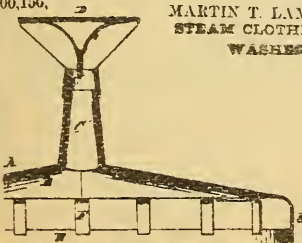
100,154, OLOF JOHNSON.
CARL O. WALL.
GRAIN-CONVEYERS.



100,155, FRANK KRANDELT.
EGG-BEATER.



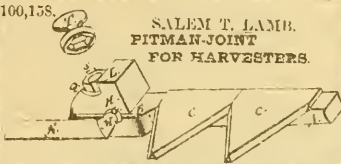
100,156, MARTIN T. LAMB.
STEAM CLOTHES
WASHER.



100,157, PITMAN-CONNECTION.
SALEM T. LAMB.



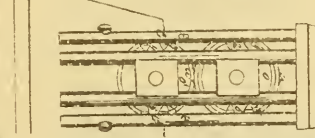
100,158, SALEM T. LAMB.
PITMAN-JOINT
FOR HARVESTERS.



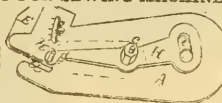
PITMAN-JOINT FOR HARVESTERS
100,159, SALEM T. LAMB.



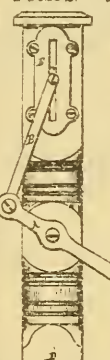
100,160, JOSEPH LE COMTE.
SOLDERING-MACHINE.



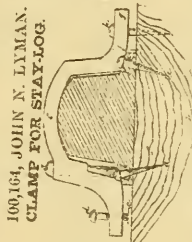
100,161, ARTHUR M. LESLIE. RUFFLING
ATTACHMENT FOR SEWING-MACHINE.



100,162,
G. W. LOW.
PUMPS.

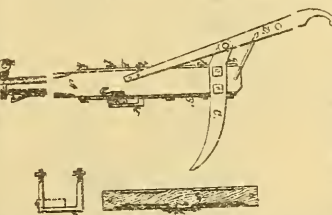


100,163, ORAZIO LUGO.
MANUFACTURE OF
FERTILIZERS FROM
ANIMAL SUBSTANCES.

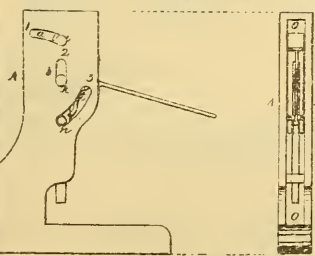


100,164, JOHN N. LYMAN.
CLAMP FOR STAY-LOG.

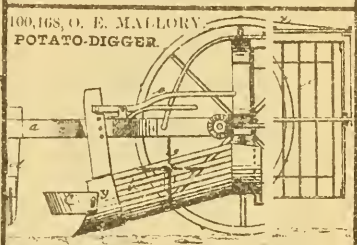
100,165, JAMES B. LYONS.
STONE AND STUMP-EXTRACTOR.



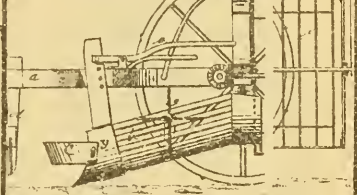
100,166, W. STINSON LORD.
PUNCH-AND PRESS.



100,167, PATRICK N. MACKAY.
ROOFING AND FLOORING.



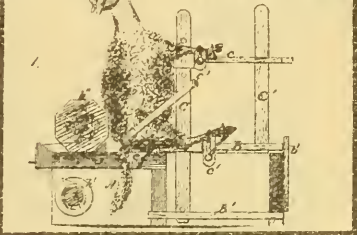
100,168, O. E. MALLORY.
POTATO-DIGGER.



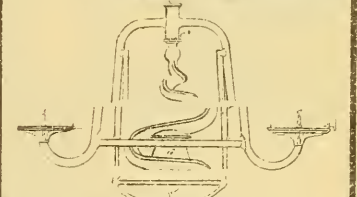
100,169, HARRIS H. MARGESON. FENCE.



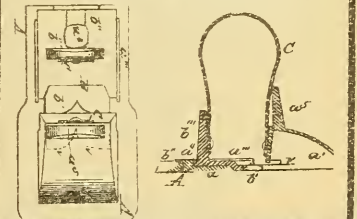
100,170, JOSEPH R. MARSHALL.
SHEEP-SHEARING TABLE.



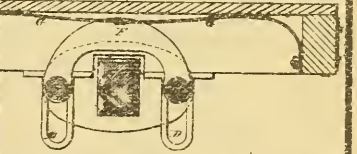
100,171, HUGH L. McAVOY. EXTENSIBLE
GAS-TUBES FOR CHANDELIERS.



100,172, WM. L. McDOWELL.
SAND-CORES IN FLASKS.
IMPLEMENT FOR UNDER-CUTTING



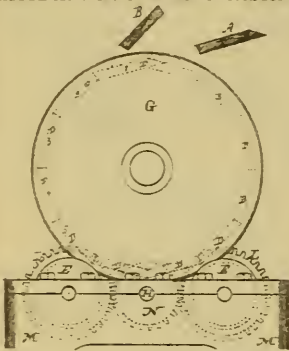
100,173, EDWD. T. MCKEAN.
CAR-COUPLING.



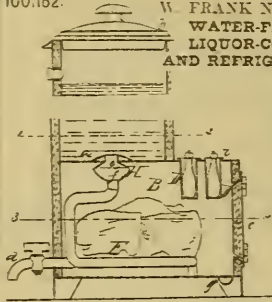
JOHN McPHERSON.
100,174, SOLDERING-FURNACE.



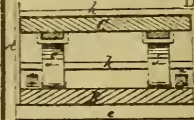
100,175, GEORGE MILLER. GRINDER OR RATTLER FOR CLEANING CASTINGS



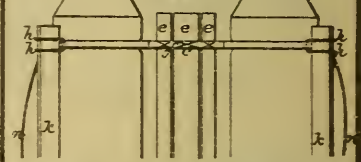
100,182. W. FRANK NICKELS. WATER-FILTER, LIQUOR-COOLER, AND REFRIGERATOR



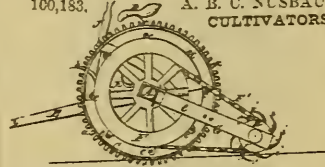
100,190, D. H. RICHARDSON. WAGON-SEATS



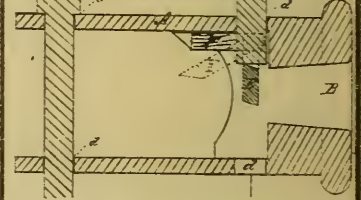
100,191, JOHN RIDER. LIFE-RAFTS



100,183. A. B. C. NUSBAUM. CULTIVATORS.



100,192, H. S. ROOT. CAR-COUPLING



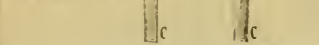
100,176. R. R. MILLER. JACKS FOR CARRIAGE-SPRINGS.



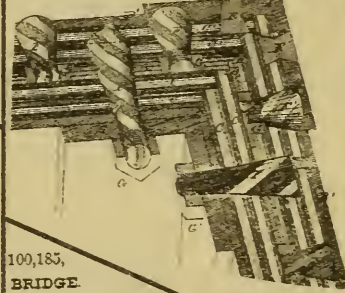
100,193, JOHN ROSS. BOAT-DETACHING APPARATUS



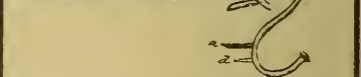
100,177. R. R. MILLER. HEADS FOR FIFTH-WHEEL CARRIAGES



100,184, DAVID O. PAIGE. SAFES



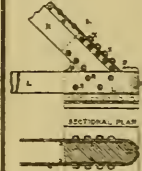
100,194, J. B. SARGENT. WARDROBE-HOOKS



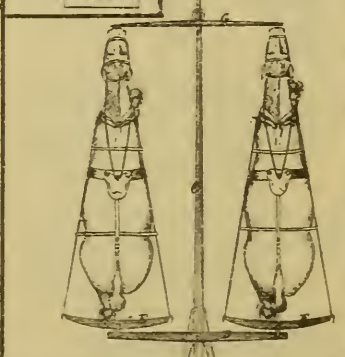
100,178, F. B. MORSE. DIE FOR FORMING THE HEADS OF KING-BOLTS



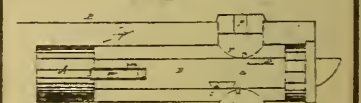
GEORGE H. PERKINS. 100,186, CAPS FOR METALLIC CANS.



100,187, ELI PETTEY'S. WAGONS

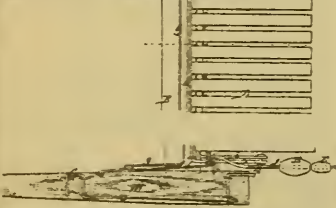


100,195, ZEBADIAH SARGENT LOCK

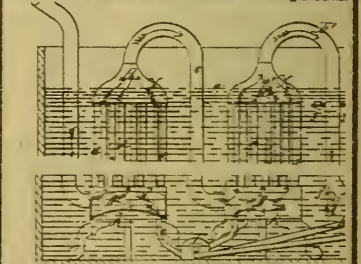


100,179, JOHN M. MOTT.

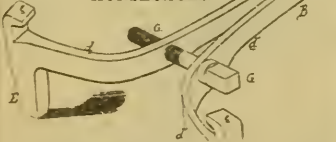
DRIVE-WELL TUBES.



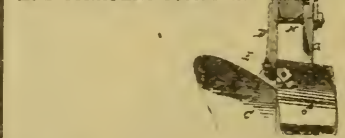
100,196, GEORGE W. SHAW. SEPARATORS TO BE USED IN DISTILLING LIQUORS



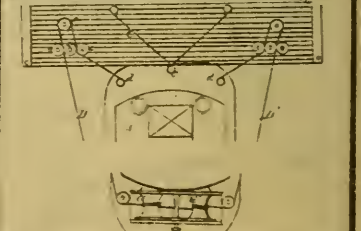
100,180, ALBERT L. MURPHY. HORSESHOES.



100,188, J. REYNOLDS. SUBSOIL PLOWS AND SCRAPERS COMBINED.



100,197, E. O. SHEPARDSON. APPARATUS FOR TOWING RAFTS, &c.

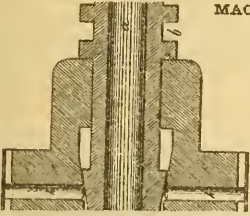
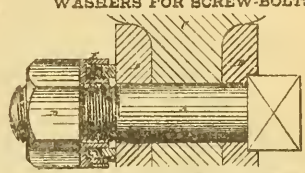
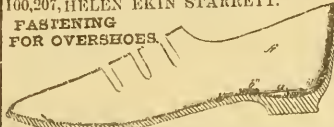
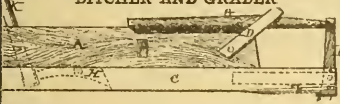
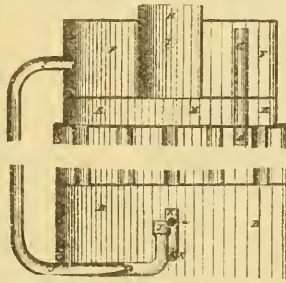
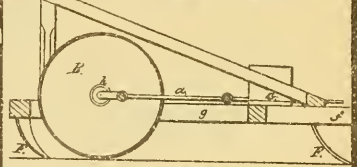
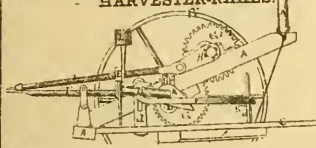
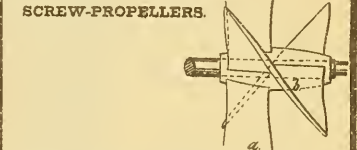
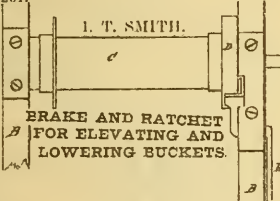
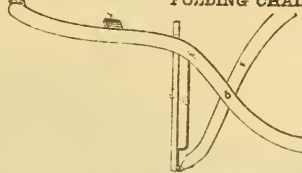
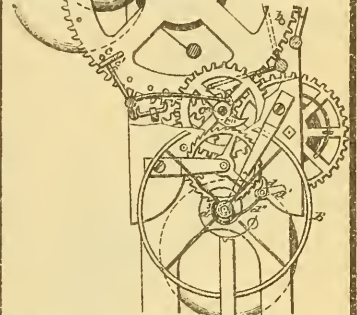
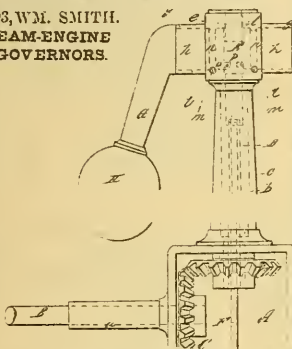
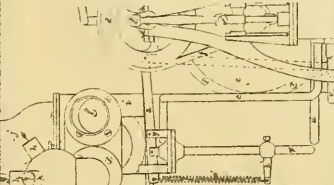


100,181, EPHRAIM MYERS. HARVESTER-DROPPERS.

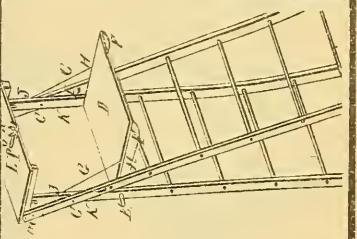
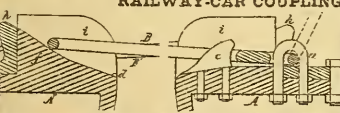


100,189, GEO. H. RICHARDS. ERASER ATTACHMENT FOR PENCILS, &c.

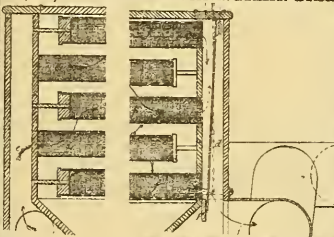
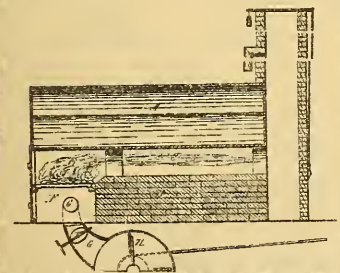
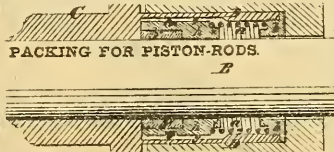
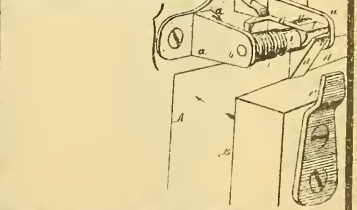


100,198 DANIEL SIMMONS, JR. PAPER-BOX
MACHINES.A. J. SPENCER SHIFTING-BAR FOR
SLEIGHS.100,214, NATHAN THOMPSON.
WASHERS FOR SCREW-BOLTS.100,207, HELEN EKIN STARRETT.
FASTENING
FOR OVERSHOES.100,199, J. G. Sisson.
LARK DELANA.
DITCHER AND GRADER.100,208, L. STEVENS. MANUFACTURE
OF GAS FROM PETROLEUM100,215, E. A. THRUSH.
CORN-PLANTERS.100,200, E. W. SKINNER.
HARVESTER-RAKES.100,216, CHAS. G. TOENSE.
SCREW-PROPELLERS.100,201.
I. T. SMITH.100,209, ALEXANDER W. STEWART.
FOLDING CHAIR.100,217, MICHAEL FROMLY.
ESCAPEMENT FOR TIME-PIECES.100,202, LUTHER L. SMITH. NEGATIVE
PLATE FOR A "SMEE" BATTERY.100,210, ANDREW H. SMITH.
FREDK. A. STOHLMANN.
MECHANICAL LEECHES.100,203, WM. SMITH.
STEAM-ENGINE
GOVERNORS.100,211, B. F. STURTEVANT. HEATING
AND VENTILATING APPARATUS.

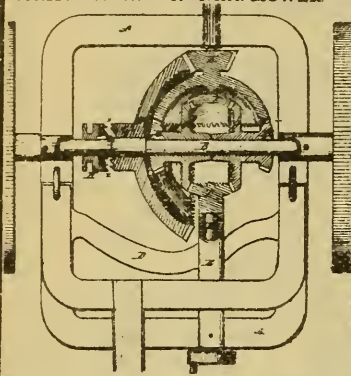
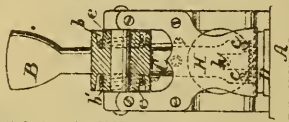
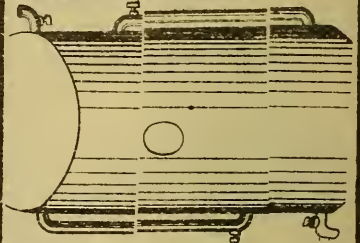
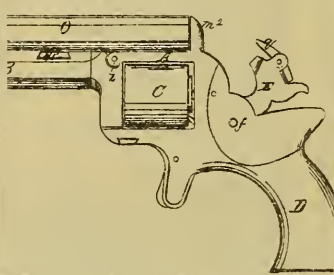
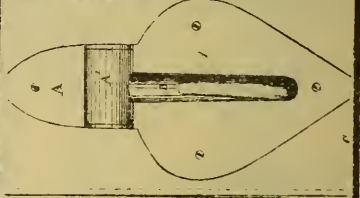
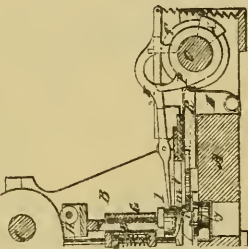
100,218, FRIEDRICH ULRICH. SHEARS.

100,219, JAMES H. VERITY.
FRUIT-LADDER.100,204, ELIAS F. SNEIDER.
RAILWAY-CAR COUPLING.

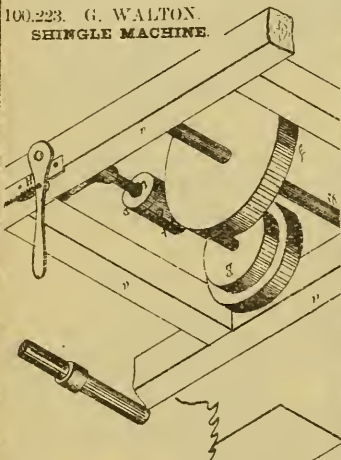
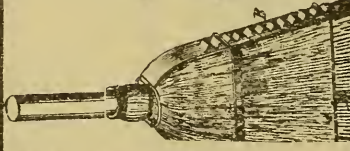
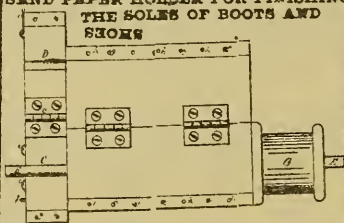
100,212, B. F. STURTEVANT. GRAIN-DRIER.

100,205, THOMAS S. SPEAKMAN.
FURNACES.100,213, CHARLES THAYER.
DAVID McPHERSON.100,220, EDWARD VOIGT.
AUTOMATIC LATCHES.

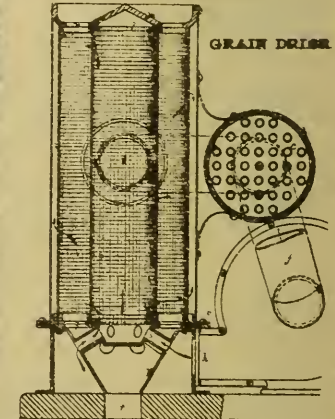
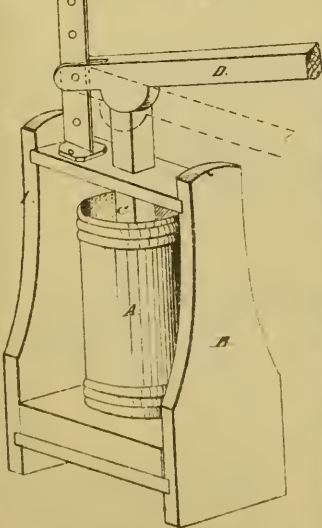
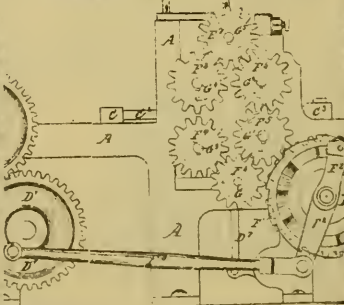
100,221. A. H. WAGNER. MOWER.

100,225. W. A. WHEELER.
CANCELING STAMP.100,226. A. WHITE.
HOOK FOR HARNESS.100,232. WOOLSTON & CORFIELD.
REVERSIBLE PERCOLATOR.100,227. R. WHITE.
REVOLVER.100,233. G. & A. BERND.
HARNESS HOOK.100,222. J. T. WALKER.
HORSESHOE MACHINE.

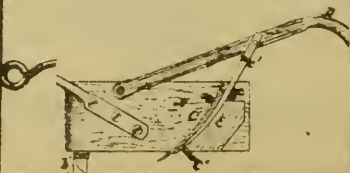
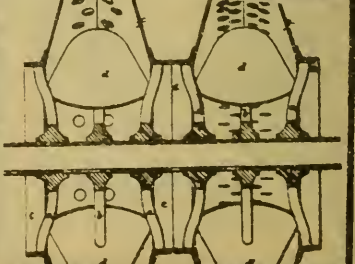
100,234. H. A. BARTLETT. SPICE BOX.

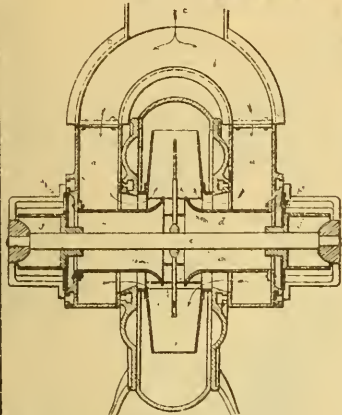
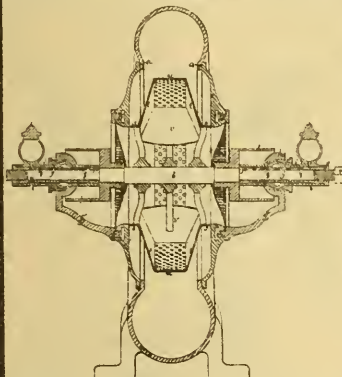
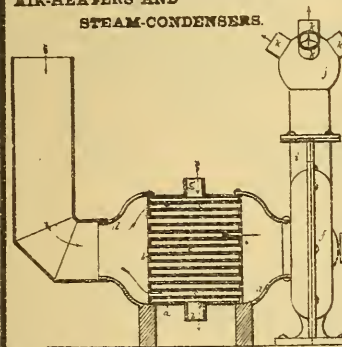
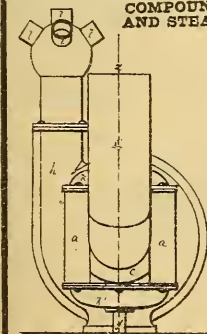
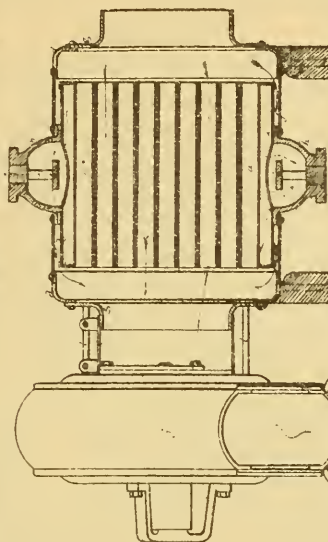
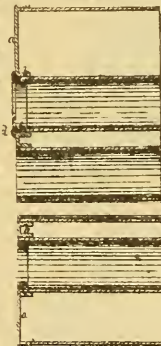
100,223. G. WALTON.
SHINGLE MACHINE.100,228. F. O. WILLEY.
BROOM BRACE.100,229. H. L. WILLIS.
SAND PAPER HOLDER FOR FINISHING
THE SOLES OF BOOTS AND
SHOES.

100,235. B. F. STURTEVANT.

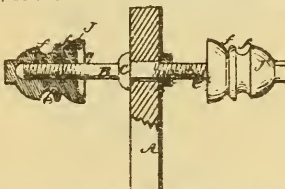
100,224. WARNER & THOMAS.
CHURN.100,230. T. WOOD.
MACHINE FOR MAKING NAILS AND
SPIKES.100,236. B. F. STURTEVANT.
PRESSURE BLOWER WHEEL.

100,231. C. F. WOODRUFF. DITCHER.

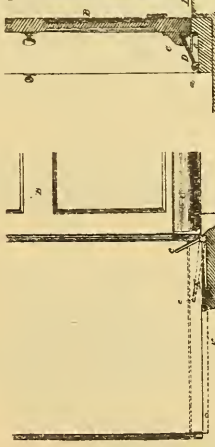
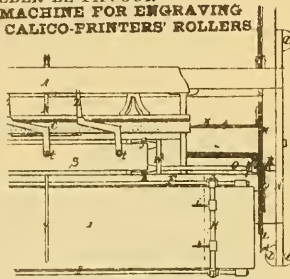
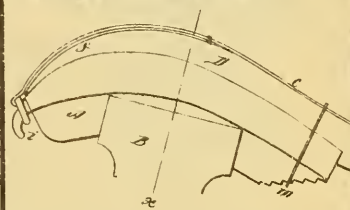
100,237. B. F. STURTEVANT.
FAN BLOWER.

100,238, B. F. STURTEVANT.
HOT-AIR BLOWERS.100,239, B. F. STURTEVANT.
PRESSURE-BLOWERS.100,240, B. F. STURTEVANT. COMPOUND
AIR-HEATERS AND
STEAM-CONDENSERS.100,241, B. F. STURTEVANT.
COMPOUND AIR-HEATERS
AND STEAM-CONDENSERS.100,242, B. F. STURTEVANT.
COMPOUND AIR-HEATERS
AND STEAM-CONDENSERS.100,243, B. F. STURTEVANT.
UNITING TUBES TO TUBE-SHEETS.

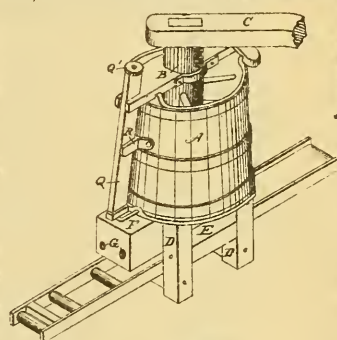
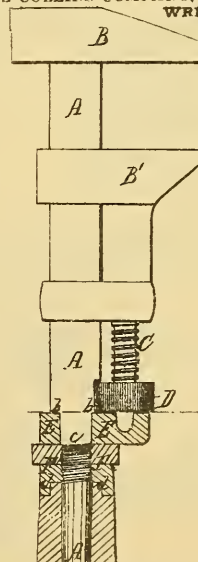
3,847, LOUIS A. CAUVET. INSULATORS.



3,848, F. C. GRIDLEY. WEATHER-STRIP.

JOHN HOPE. 3,849.
THOMAS HOPE.
HEBER LE FAYOUR
MACHINE FOR ENGRAVING
CALICO-PRINTERS' ROLLERS3,850, WM. P. LETCHWORTH.
MACHINE FOR BENDING WOOD

3,851, F. M. MATTICE. TILE-MACHINES.

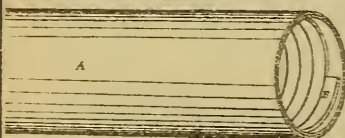
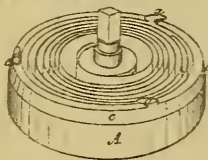
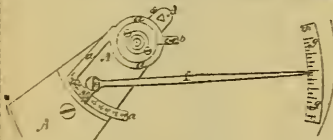
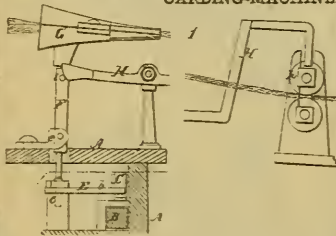
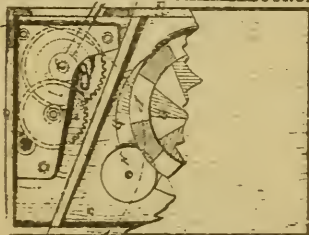
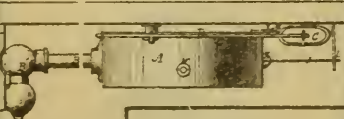
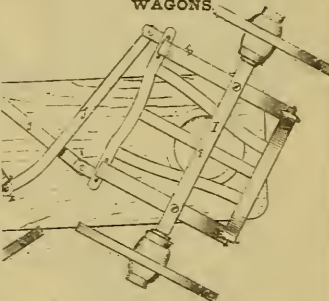
3,852, THE COLLINS COMPANY.
WRENCHES

ILLUSTRATIONS OF PATENTS

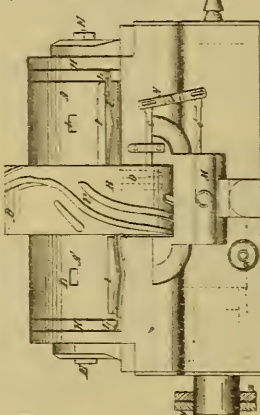
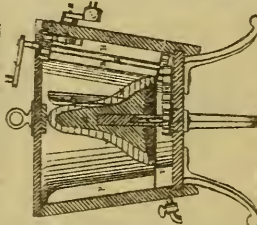
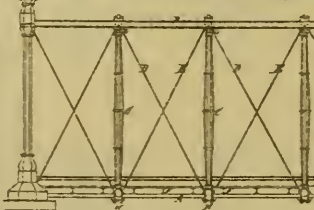
ISSUED FROM

THE UNITED STATES PATENT OFFICE

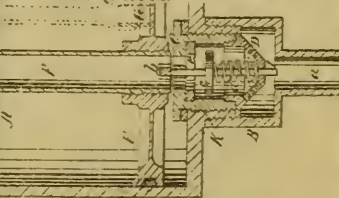
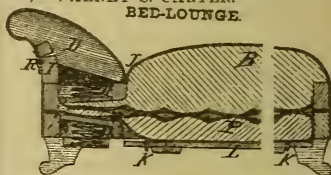
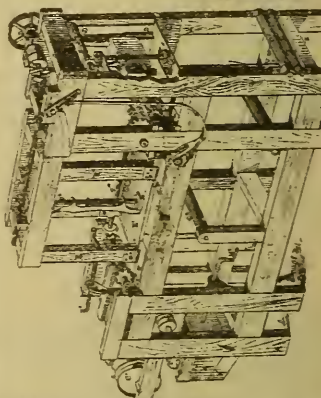
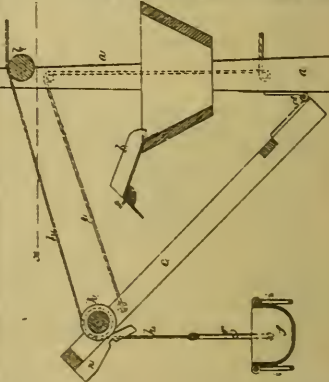
MARCH 1, 1870.

100,244, ALBERT F. ALLEN.
SUCTION-ROSE.100,245, JOHN P. ALLEN.
MAIN-SPRING BARRELS FOR WATCHES100,246, JOHN P. ALLEN.
WILLIAM E. BANTA.
WATCH-REGULATORS.100,247, C. W. ANDERSON.
STOP-MECHANISM FOR
CARDING-MACHINE.100,248, SMITH W. ANDERSON.
CHAMELEOTROPE.100,249, JOHN ASHWORTH.
STEAM TRAP.100,250,
JOHN BACHELDER.
FASTENINGS
FOR NECK-TIES100,251, J. H. BARR.
WAGONS

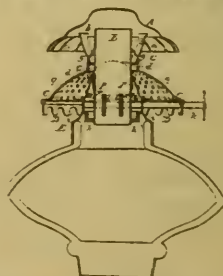
100,252, A. BLATCHLY. ROCK-DRILL.

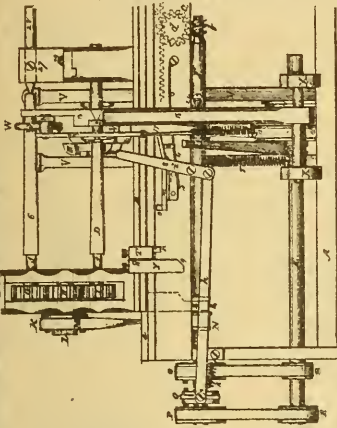
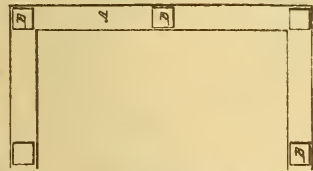
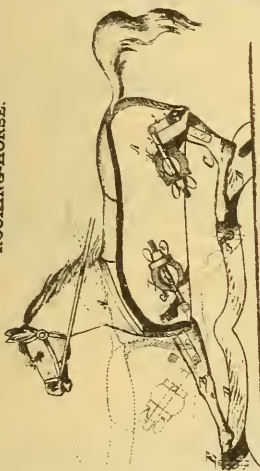
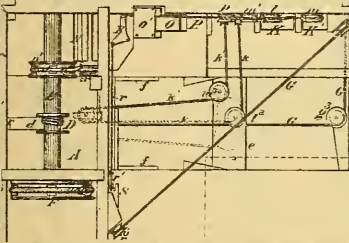
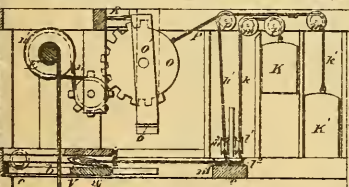
100,253, WM. A. BROWN.
WASHING-MACHINE.100,254, HENRY C. BRUNDAGE.
IRON BRIDGES.

100,255, S. G. CABELL. HYDRANTS.

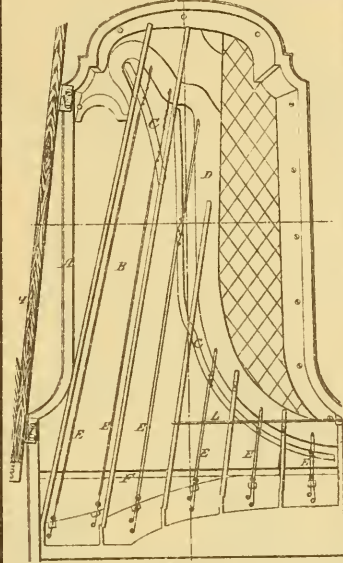
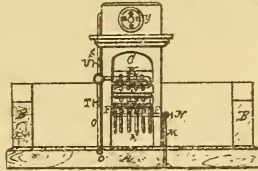
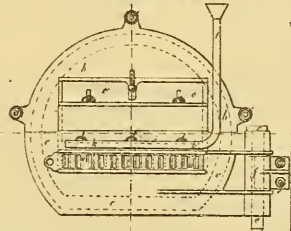
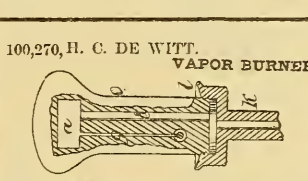
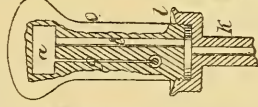
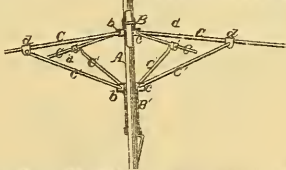
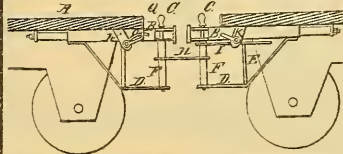
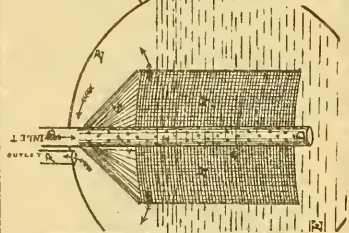
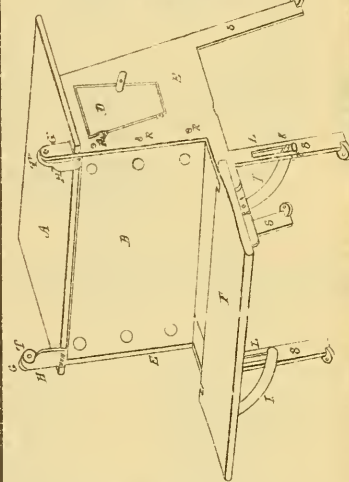
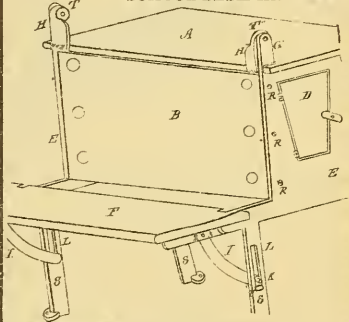
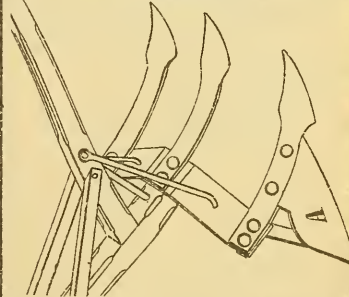
100,256, J. B. CAMPBELL.
SPRING-BED BOTTOM.100,257, HENRY S. CARTER.
BED-LOUNGE.100,258, CHAS. H. CHAPMAN.
TAG-MACHINES.100,259, LEWIS S. CHICHESTER.
COAL-HOISTING APPARATUS.

100,260, M. H. COLLINS. LAMP-BURNERS.

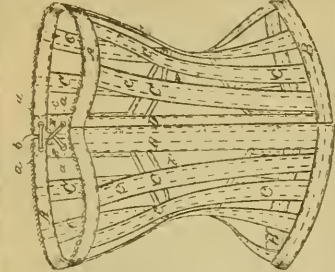


100,261, C. B. CONANT,
H. THOMPSON SPOKE-LATHE.100,262 ALMOND F. COOPER.
FOUNDATION FOR BUILDINGS100,263,
J. A. CRANDALL.
ROCKING-HORSE.100,264, GEORGE N. CREAMER.
SAFETY-HATCH FOR BUILDINGS.100,265, GEORGE N. CREAMER.
SELF-ACTING HATCHWAY-HOISTS.

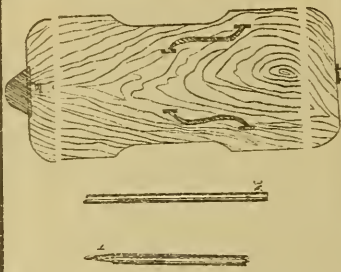
100,266, GEO. H. DAVIS, GRAND PIANOS

100,267, EDWARD MORTIMER DEEY.
VENTILATOR100,268, A. DE LANDSEE.
HYDROCARBON BURNER100,269, E. J. DE SLEDT.
COMPOSITION FOR ROOFING, PAVING.100,270, H. C. DE WITT.
VAPOR BURNERS.100,271 H. E. DONOR.
UMBRELLA-FRAMES100,272, JOHN W. H. DOUBLER.
RAILWAY-CAR COUPLING100,273, EDWIN DOUDEN.
BREAKER-ROLLERS100,274, CLEVELAND F. DUNDERDALE
CARBURETER.100,275, WILLIAM P. ERWIN,
THOS. A. DUGDALE.
SCHOOL-DESK100,276, WILLIAM P. ERWIN,
THOMAS A. DUGDALE.
SCHOOL-DESK AND SEAT.100,277, JOHN C. ERWOOD.
CORN-CULTIVATOR

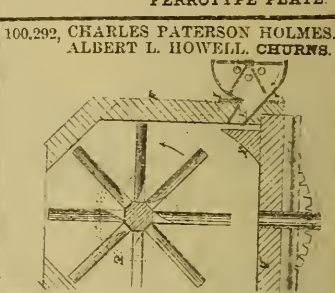
100,278, D. H. FANNING. CORSETS



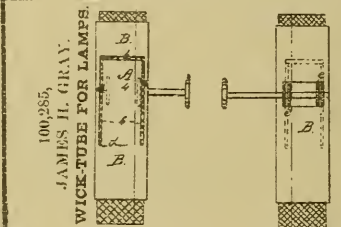
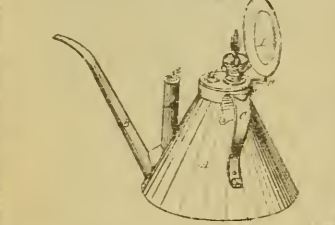
100,284, JOSEPH GRANDJON. VIOLINS



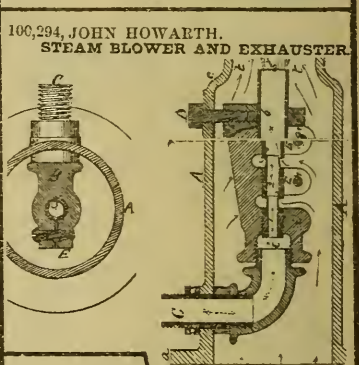
100,291, H. M. HEDDEN. FERROTYPE PLATE



100,279, JOSEPH L. FOLSOM. OIL-CANS

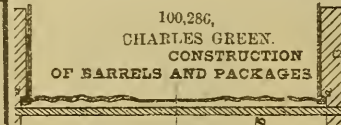
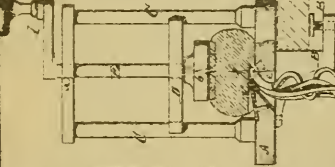


100,293, C. E. HOWARD. MANUFACTURE OF ARTIFICIAL FLOWERS.



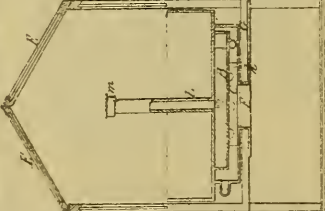
100,294, JOHN HOWARTH. STEAM BLOWER AND EXHAUSTER.

100,280, MICHAEL GERHARD. VEGETABLE-CUTTER

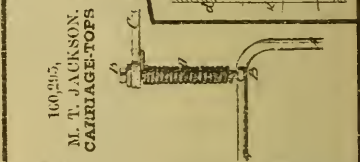
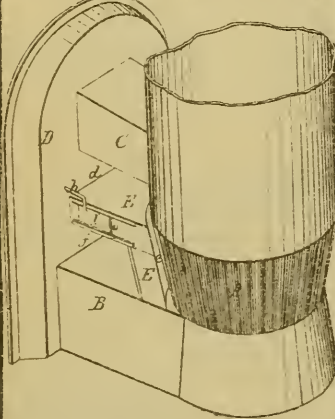


100,286, CHARLES GREEN. CONSTRUCTION OF BARRELS AND PACKAGES

100,287, PATRICK GRIFFITH. PARLOR HOT-HOUSE



100,281, B. GOMMENGINGER. HOT-AIR FURNACE.



100,295, M. T. JACKSON. CARRIAGE-TOPS

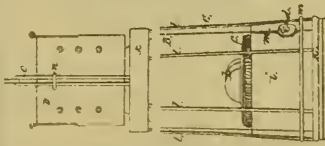
100,296, CHAUNCEY JEROME. CIGAR-BOX



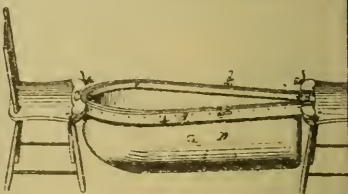
100,282, GEO. W. W. GOODWYN. COMPRESSED-AIR CYLINDERS



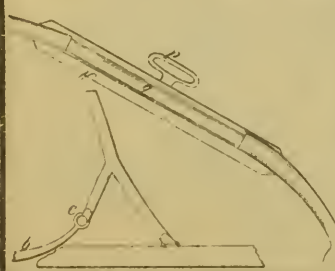
100,289, CHARLES HART. LANTERN



100,297, E. J. KNOWLTON. PORTABLE BATHS



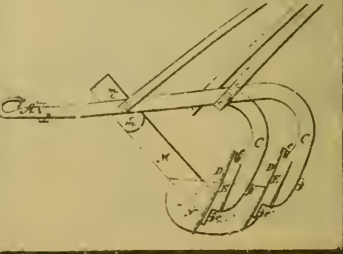
100,283, C. GRAHAM. BREASTPLATE FOR THE BREAST-COLLARS OF DOUBLE HARNESS.



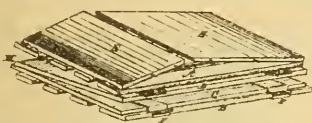
100,290, H. J. HEALD. TOY.



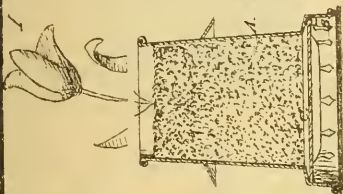
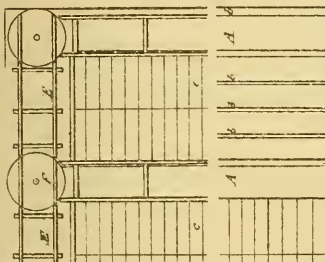
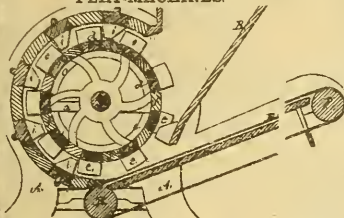
100,298, G. W. LAWRAUGH. DOUBLE-SHOVEL FLOWS



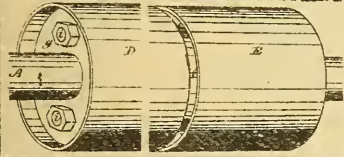
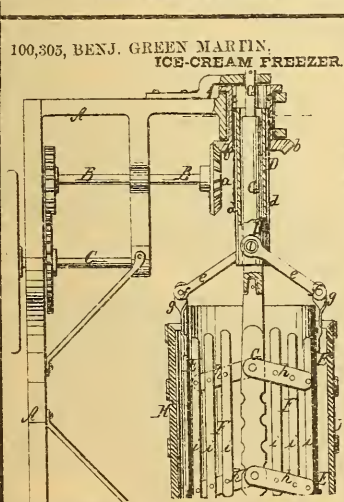
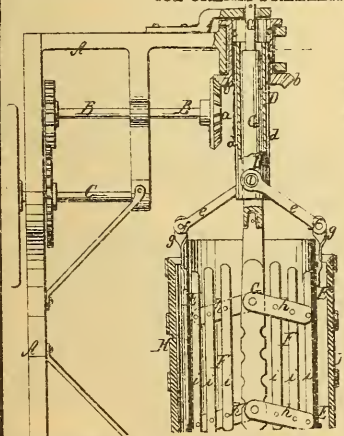
100,299, L. A. LINDSEY. FOLDING-CRATES.



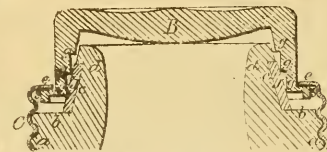
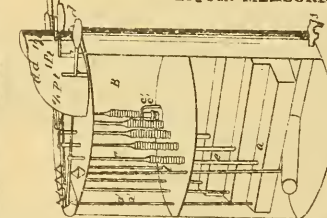
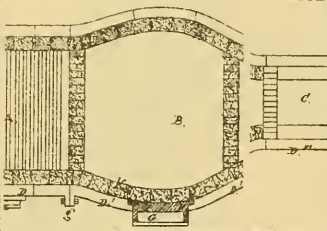
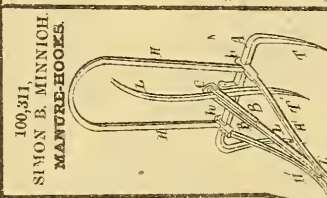
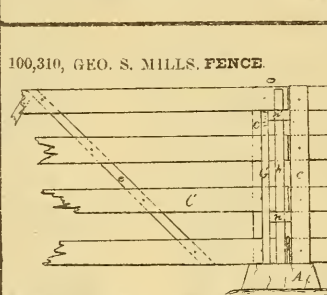
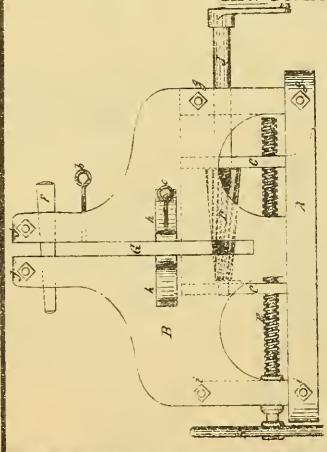
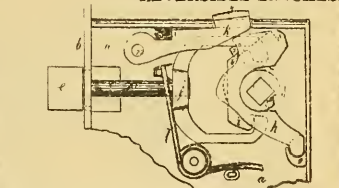
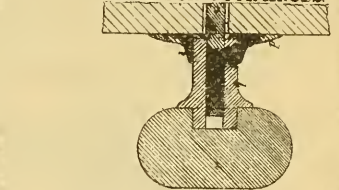
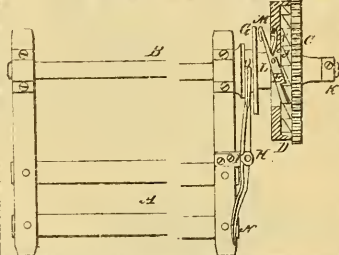
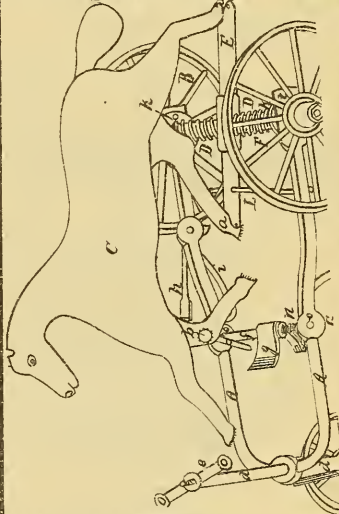
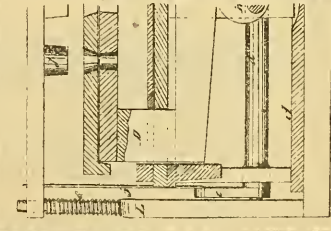
100,300, M. LUDLUM. FLOWER-POTS.

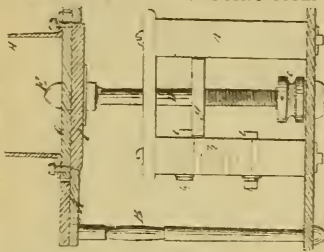
100,301, JAMES B. LYONS.
FLOORS FOR DRYING PEAT.100,302, JAMES B. LYONS.
PEAT-MACHINES.

100,303, H. F. MANN. SHAFT-COUPLING.

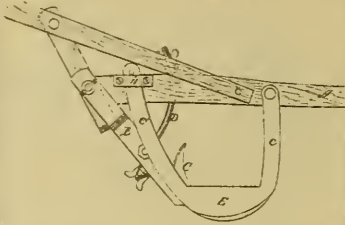
100,304, PHILIP MARQUARDT.
MANUFACTURE OF POTTERY.100,305, BENJ. GREEN MARTIN.
ICE-CREAM FREEZER.

100,306, JOHN L. MASON. FRUIT-JARS.

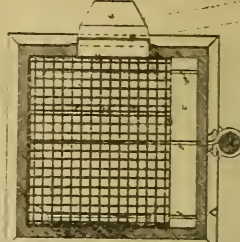
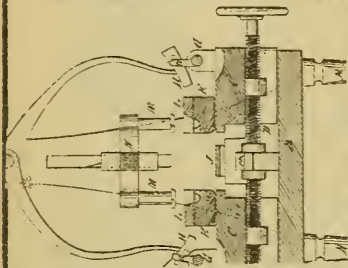
100,307, MARTIN McDEVITT.
LIQUID MEASURES.100,308, SAMUEL McLAUGHLIN
PUDDLING-FURNACES.100,309, E. McMILLIN.
PURIFICATION OF COAL GAS.100,312, GILBERT MUNDAY.
SAW-GUMMER.100,313, W. T. MUNGER.
REVERSIBLE LATCHES.100,314, W. T. MUNGER.
ROSE FOR DOOR-KNOBS.100,315, M. D. MYERS.
RATCHET AND PAWL MECHANISM.100,316, JOHN H. NOLAN. CHILDREN'S
HORSE AND SELF-PROPELLER.100,317, ELIAS A. PAINE.
SHUTTLE FOR LOOMS.100,318, S. J. PEET. APPARATUS
FOR MAKING SOLID CORES.

100,319, S. J. PEET.
MACHINE FOR PRODUCING MOLDS.

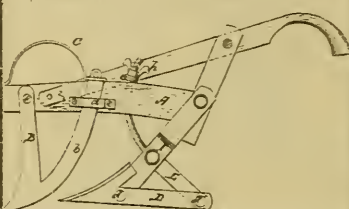
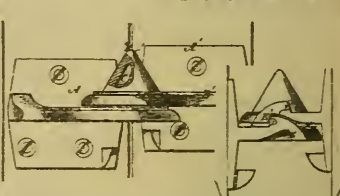
100,325, MARK RIGELL, PLOWS.



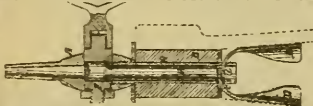
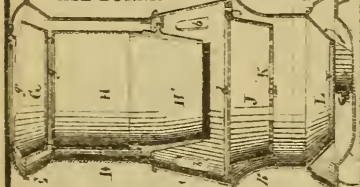
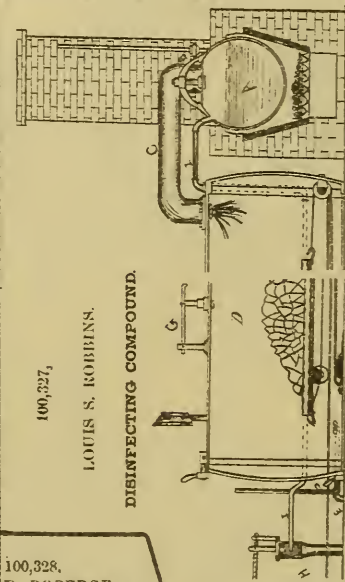
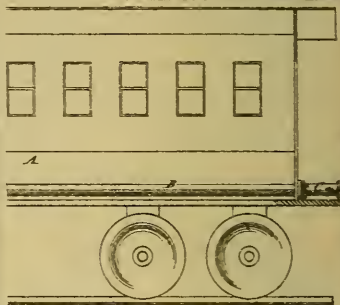
100,331 BROWN SEARS, COAL-SIFTER.

100,320, S. J. PEET.
MACHINE FOR PRODUCING CORES.

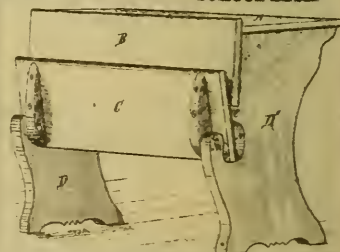
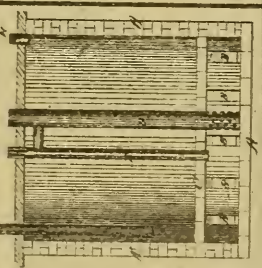
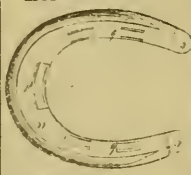
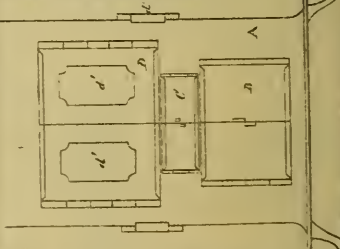
100,326, MARK RIGELL, PLOWS.

100,332, ALBERT P. SEYMOUR.
REVERSIBLE HINGE.

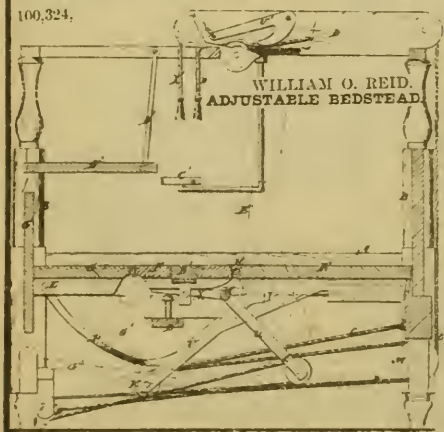
100,321, L. A. PERRAULT, BOTTLE-COCKS.

100,322, J. S. PERRY AND A. DICKEY.
BASE BURNING STOVE.100,327,
LOUIS S. ROBBINS.
DISINFECTING COMPOUND.100,333, FREDERICK SHALLER.
RAILROAD-CAR HEATERS.

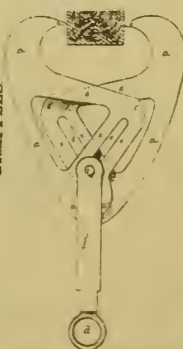
100,334, JAMES SMITH, SCHOOL-DESK.

100,323,
BENJAMIN B. REDFIELD.
FILTERS FOR CISTERNS.100,328,
D. ROBERGE.
HORSESHOES.100,329,
D. ROBERGE.
HORSESHOES.100,335, J. SPEAR.
BASE BURNING STOVE.

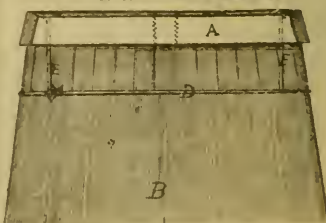
100,324,

WILLIAM O. REID.
ADJUSTABLE BEDSTEAD.

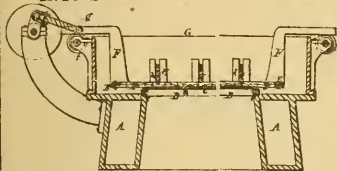
100,330,

SEYMOUR ROGERS.
GRAPPLES.

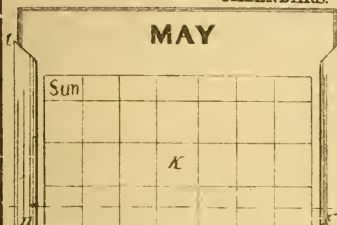
100,336, W. C. SPELLMAN, BROOM.



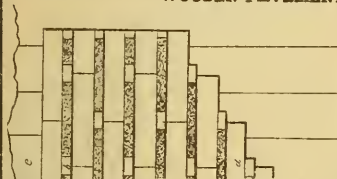
100,337, CHARLES STETEFELDT.
MACHINE FOR FEEDING ORES
INTO SHAFT ROASTING-FURNACES



100,338, JOSHUA F. TANNATT.
CALENDARS.



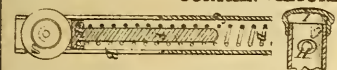
100,339, JAMES K. THOMPSON.
WOODEN PAVEMENT.



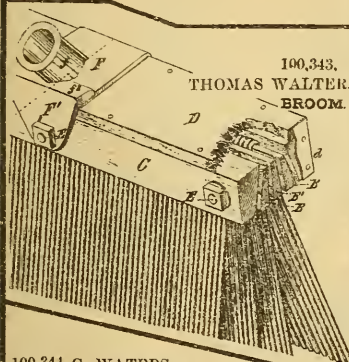
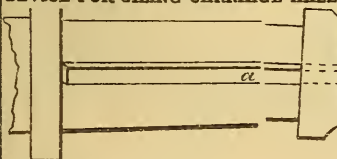
100,340, E. PALMER TIFFANY. PENS



100,341, JAMES TURNBULL.
WILLIAM TURNBULL.
CURTAIN-PICTURE



100,342, JAMES VANDERPOOL.
DEVICE FOR OILING CARRIAGE AXLES

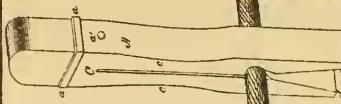


100,343, THOMAS WALTER.
BROOM.

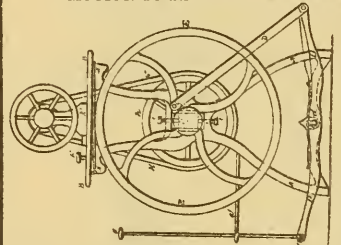
100,344, G. WATERS.
FRESH-WATER FILTERS.



100,345, WILLIAM WELLINGTON.
CLOTHES-PIN.

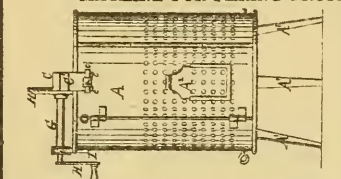


100,346, WILLIAM WELLINGTON.
APPARATUS FOR TRANSMITTING
MOTION TO SEWING-MACHINES.

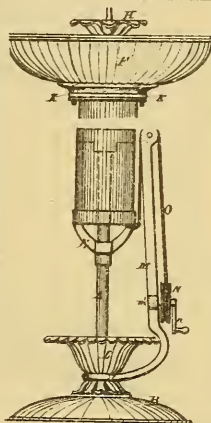


100,347, FR. WICKE.
JULIUS BRÖNNER.
THEODOR PETERSEN.
DR. G. ZEHFUSS.
FERTILIZE FROM EXCREMENTS.

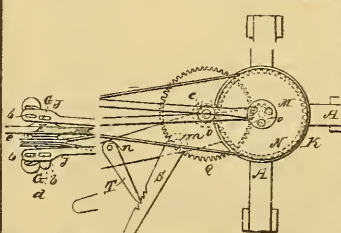
100,348, W. H. WILLIAMS.
MACHINE FOR PARING FRUIT



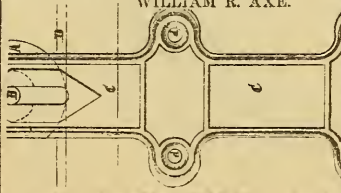
100,349, WILLIAM ALSTOK, PARLOR
FOUNTAIN FOR DIFFUSING LIQUIDS.



100,350, JOHN E. ATWOOD.
HORSE-POWERS.

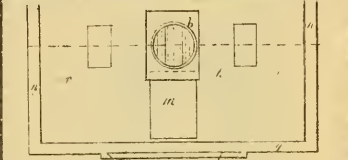


100,351, BARN-DOOR HANGERS.
WILLIAM R. AXE.

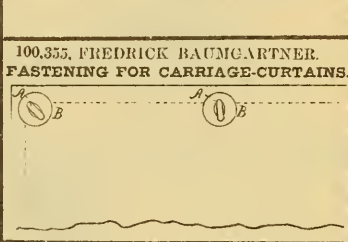


100,352, HENRY BARTHOLOMAW.
METHOD OF PRESERVING THE
AROMATIC PRINCIPLE OF HOPS.

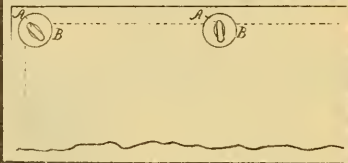
100,353, EAVRE O. BARTLETT.
MANUFACTURE OF DRY WHITE LEAD



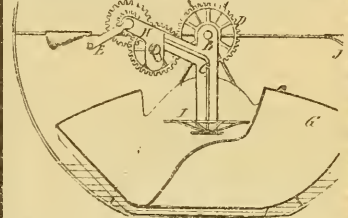
100,354, C. A. BAUMANN.
COVERING FOR STEAM BOILERS.



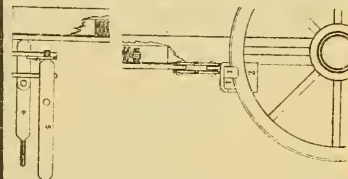
100,355, FREDRICK BAUMGARTNER.
FASTENING FOR CARRIAGE-CURTAINS.



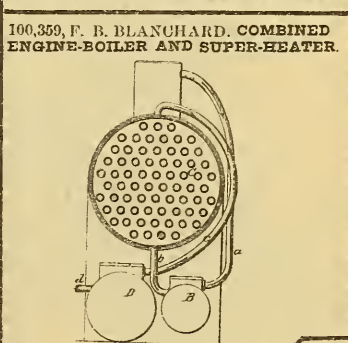
100,356, JOSEPH BECK, VELOCIPEDES.



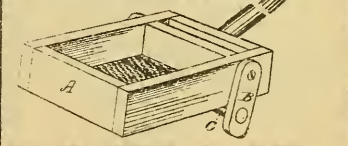
100,357, JOSEPH G. BICKNELL.
BRAKES FOR CARRIAGES AND WAGONS

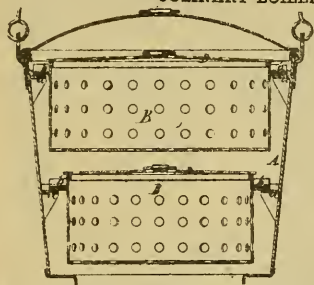
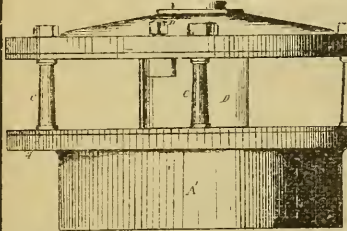
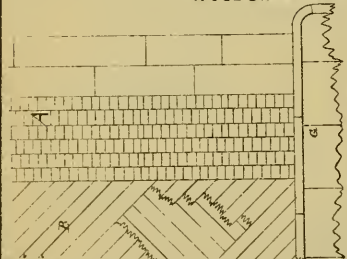
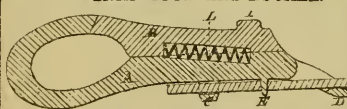
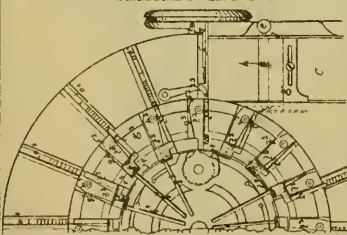
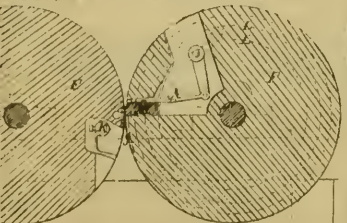
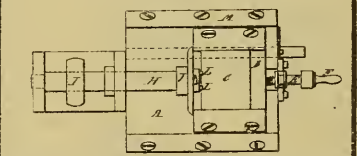
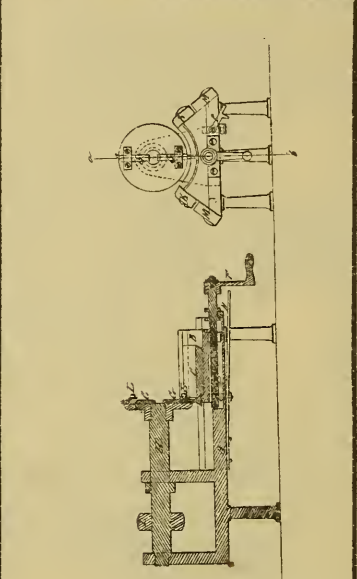
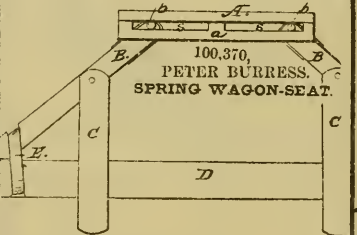
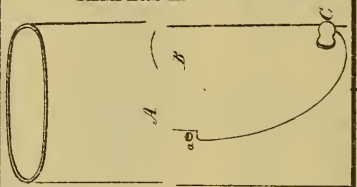
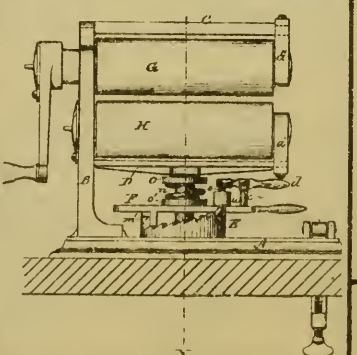
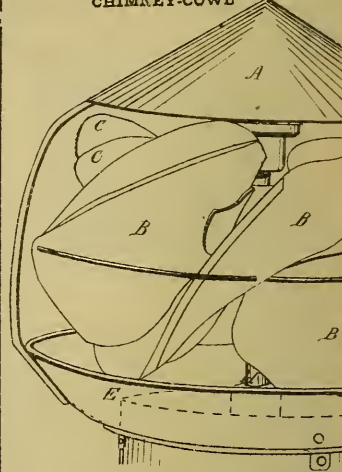


100,358, GEORGE ^{his} BIRKS.
COMPOUND FOR PREVENTING
INCORUSTATION IN STEAM-BOILERS.

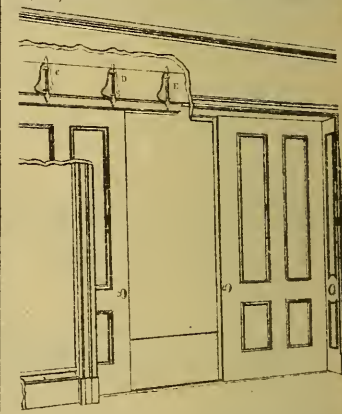
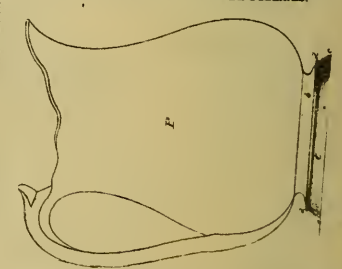
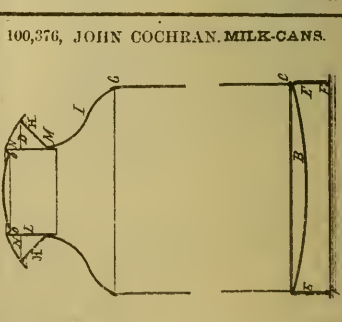


100,360, SANFORD O. BLANDING.
SIFTING-APPARATUS.



100,361, GEORGE W. BLISS.
CULINARY BOILER.100,362, JOHN W. BOOKWALTER.
WATER-WHEEL CASES.100,363, I. H. BOOLF.
WOOD PAVEMENT100,364, JOHN C. BRADY.
JAMES H. BRADY.
SNAP-HOOK AND BUCKLE.100,365, THOMAS BRISTOW.
MANUFACTURE OF Madder DYES.100,366, ORREN LEE BROWN.
TYPE-DISTRIBUTING MACHINES.100,367, RICH'D. VOSE.
ROTARY PAPER-CUTTING MACHINES.100,368, RICH'D. VOSE.
MACHINE FOR PLANING AND
SQUARING THE ENDS OF SEGMENTAL
STEREOTYPE PLATES.100,369, A. R. BURDICK, STOVE-PIPE
DAMPERS AND VENTILATORS.100,370, PETER BURRESS.
SPRING WAGON-SEAT.100,371, S. G. CABELL.
FLUTING-MACHINES.100,372, ELISHA P. H. CAPRON.
CHIMNEY-COWL

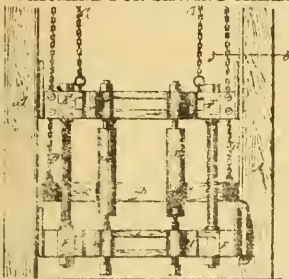
100,373, JACOB CAPRON, SLIDING DOORS.

100,374, F. B. CARLETON, SHIELD FOR
PITCHERS.100,375, LEWSON E. CHASE.
CONFECTIONERY

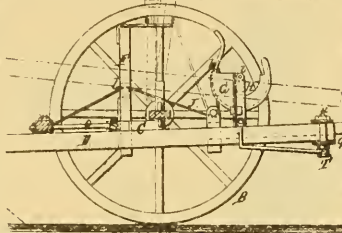
100,377, JOHN COCHRANE, CARPET



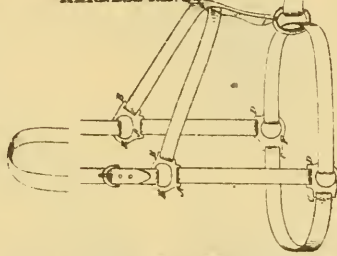
100,378, R. S. CRAIG.
A. H. WOODWARD.
MACHINE FOR SAWING MARBLE.



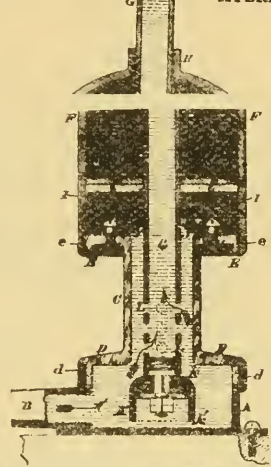
100,383, GEORGE R. DUVAL.
GANG-PLOWS



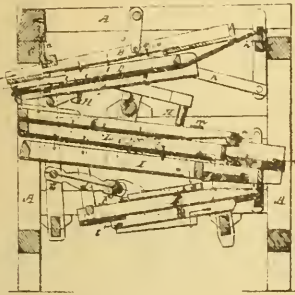
100,384, HORACE N. FAMES.
KARNESS-RINGS



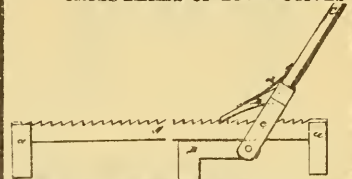
100,389, ALEXANDER S. FORT.
HYDRANTS.



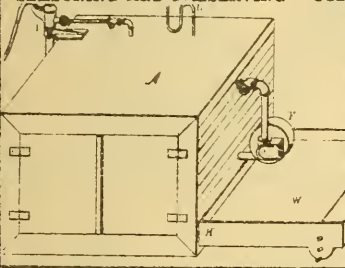
100,379, EVAN DAVIS.
GRAIN-SEPARATORS.



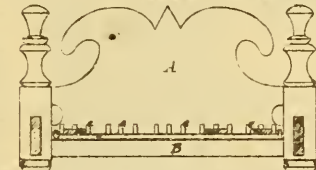
100,360, JOHN S. FUNK.
JACKS FOR MOVING THE
CROSS-HEADS OF LOCOMOTIVES



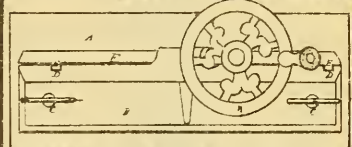
100,380, J. C. DAY.
SEASONING AND PRESERVING WOOD



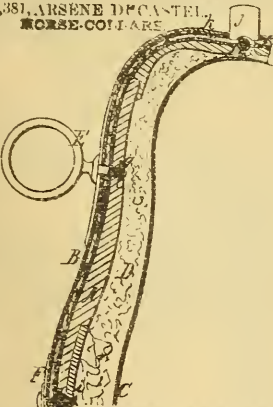
100,385, B. F. ELLS.
SPRING-BED BOTTOM.



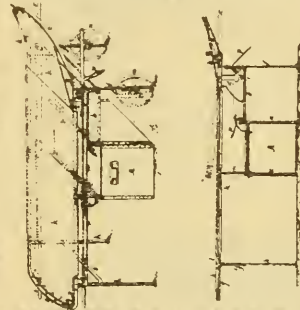
100,381, H. A. GAGE.
PAPER-CUTTING MACHINES.



100,381, ARSENE DUCASTEL.
HORSE-COLLARS



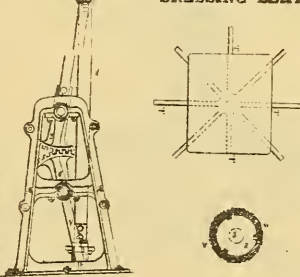
100,386, C. J. EVERICKX. BEDSTEAD.



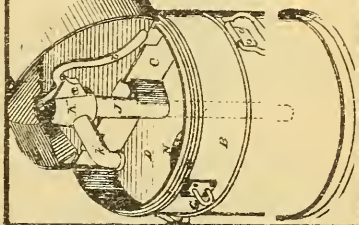
100,302, CHARLES O. GARDINER.
SICKLE-BARS.



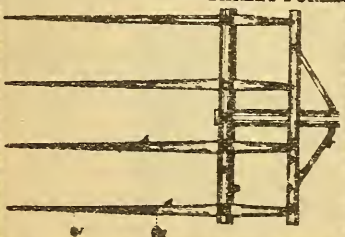
100,387, EDWARD FITZHENRY.
DRESSING LEATHER



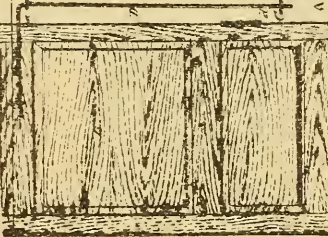
100,393, JOHN D. GRAY.
OIL-CANS.



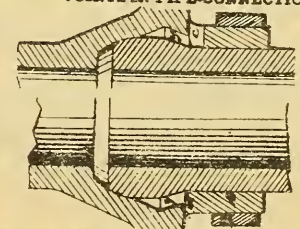
100,382, FREDRICK DUNN.
BARLEY-FORKS.

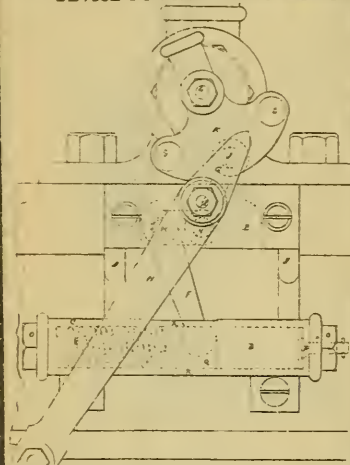
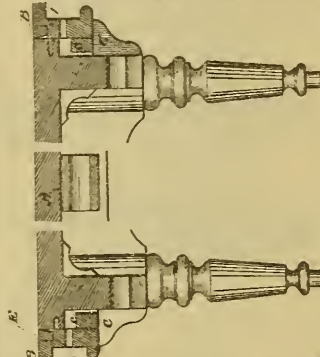
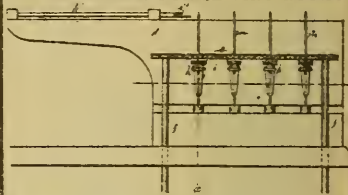
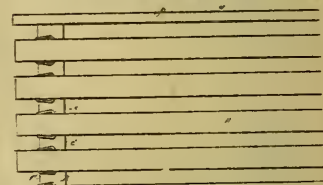
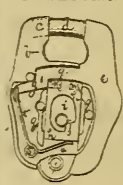
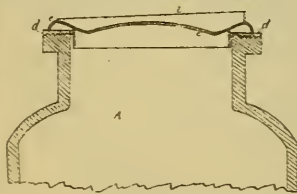
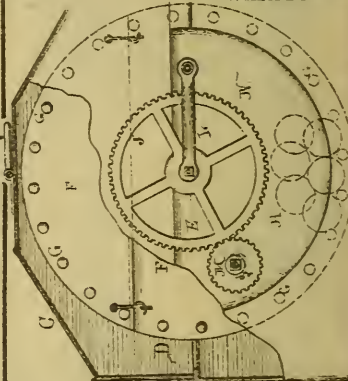
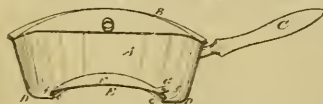
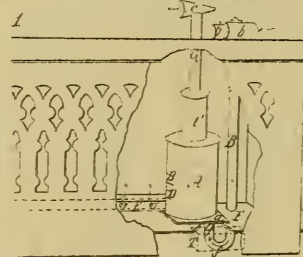


100,388, B. G. FITZHUGH.
DOOR-SPRINGS.

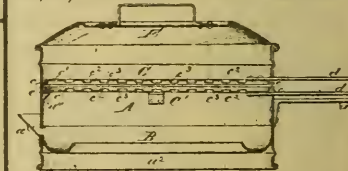
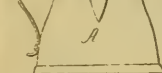
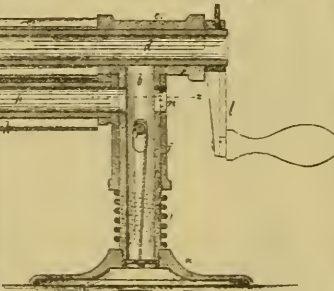
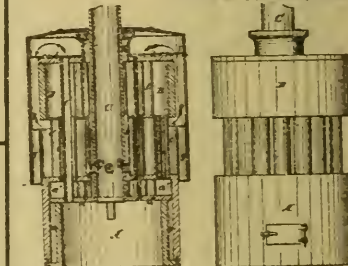
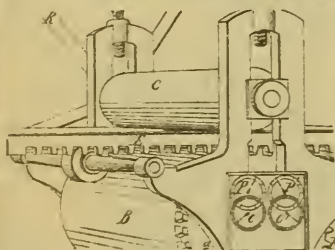
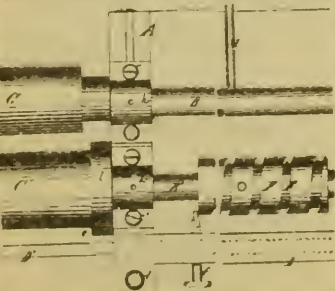


100,394, EDWARD GWYN.
CLAMPED MOLDS FOR MAKING LEAD
JOINTS IN PIPE-CONNECTIONS.

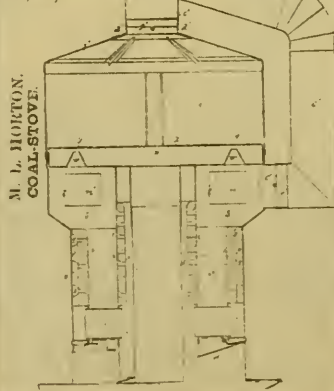


100,395, CHARLES F. HADLEY.
DEVICE FOR REVERSING MOTION100,401, FRED. E. HELD, COMBINATION
OF BILLIARD AND DINING-TABLES100,407, F. W. HOWE.
MACHINES FOR SEWING BOOKS100,408, TYLER HOWE.
SPRING-BED BOTTOM100,402, LOUIS HILLEBRAND.
PADLOCKS.100,403,
LOUIS HILLEBRAND.
PADLOCKS.100,396, JOEL HAINES.
FRUIT-JARS.100,409, THOMAS G. HUGHES.
WASH-BOILER100,397, THOMAS F. HAMILTON.
SPIDER, SKILLET, AND GRIDIRON.100,404, M. T. HITCHCOCK.
STOVE FOR RAILROAD CARS.

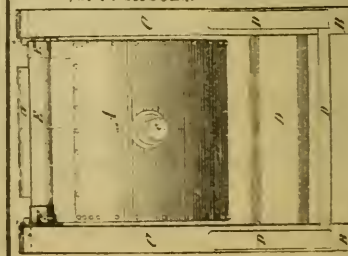
100,410, ABRAHAM C. HULL. BROILER.

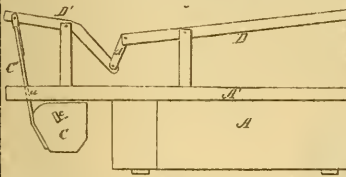
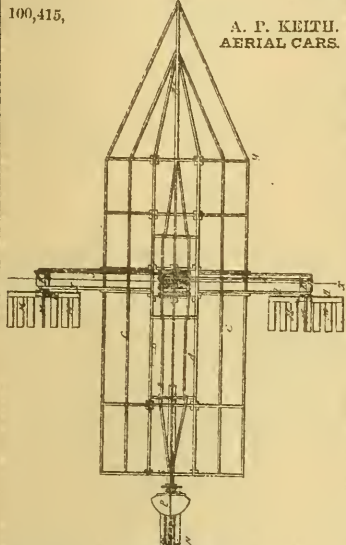
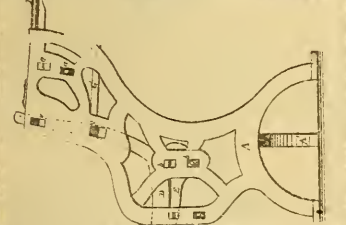
100,398,
T. F. HAMMER.
CAST-METAL LAMPS.100,405, CHAS. E. L. HOLMES.
FLUTING-MACHINES100,411, WM. H. IVENS.
STEAM-GENERATOR100,399, JOS. L. HARLEY.
PLATE-PRINTING REGISTER100,400, ALBERT HERBARD.
MACHINE FOR MAKING CAR-SPRINGS

100,406,

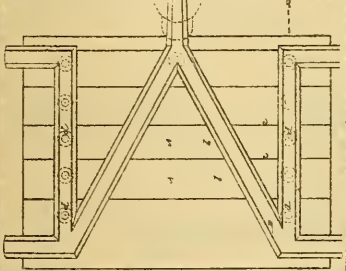
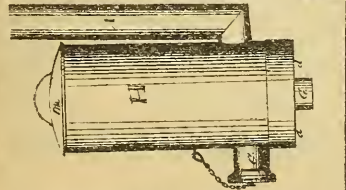
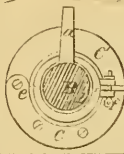
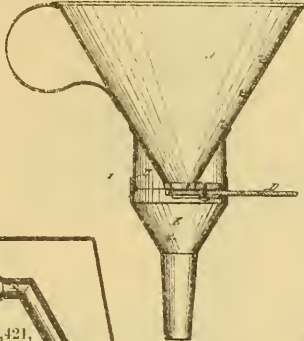
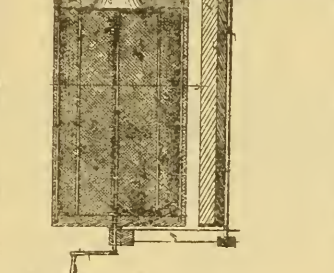
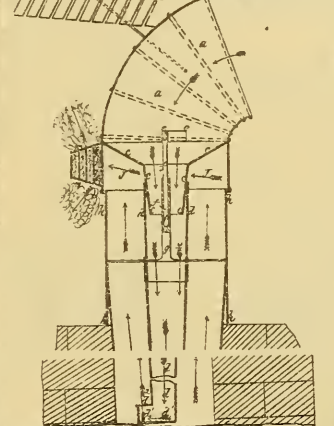
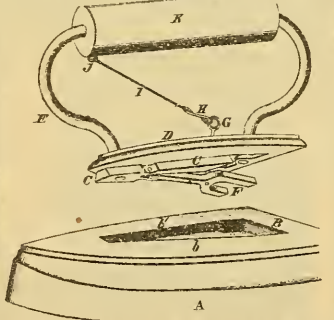
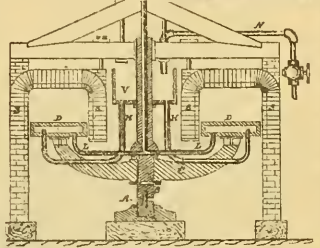
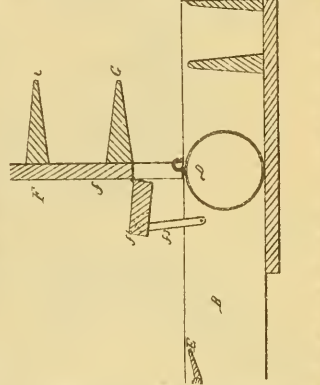
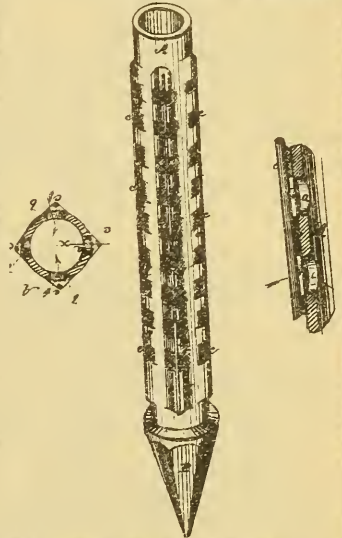
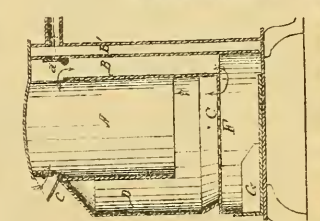
M. L. HORTON.
COAL-STOVE.

100,412, J. N. JACOBS. CHURNS.

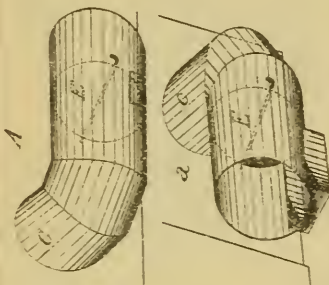


100,413, J. D. JAMES, JR.
TIN-WORKERS' TONGS.100,414, J. D. JAMES, JR. MACHINES
FOR SEAMING METAL ROOFS.100,415, A. P. KEITH.
AERIAL CARS.100,416, W. H. KLINE.
SCHOOL-DESK AND SEAT.

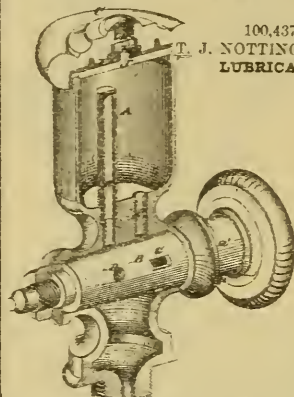
100,417, LUCIEN KNAPP. CURRY-COMBS.

100,418, PATRICK LAUGHLIN.
CISTERN-FILTERS.100,419,
SEWALL LEACH.
RUDDER-COLLAR.100,420,
WILLIAM E. LEDMUN.
FUNNELS.100,421, FRANCIS X. LIPP.
ASH-SIFTER.100,422, MILES LOCKHART.
CHIMNEY-COWL.100,423, G. W. C. LOVELL.
SMOOTHING-IRON.100,424, THOMAS LOWRY.
KILN FOR ANNEALING GLASS.100,425, SAMUEL B. LUCKETT.
CLOTH-MEASURING APPARATUS.100,426, CHARLES E. MACOMBER.
CORYDON E. WHELPLEY.
DRIVEN-WELL STRAINERS.100,427, WILLIAM MAGILL.
BASE-BURNING STOVE.100,428, ARTHUR MAGINNIS.
WM. MCCORMICK.
COLLECTING WASTE SPIRITS
FROM BREWERIES AND BARS.

100,429, S. C. MAINE
VENTILATOR FOR WINDOWS

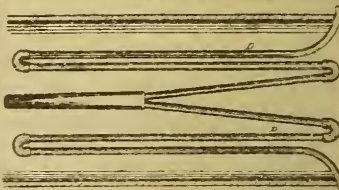


100,436, JAMES H. NEWTON.
MANUFACTURE OF COMBINED
CLOTH AND PAPER FABRIC.

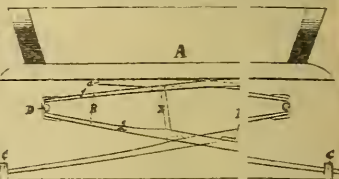


100,437,
T. J. NOTTINGHAM.
LUBRICATORS.

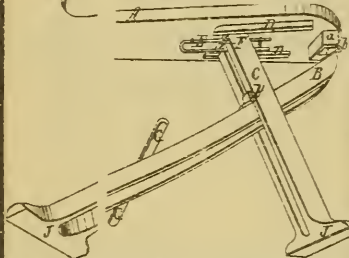
100,443, HENRY A. V. POST.
STEAM-GENERATORS



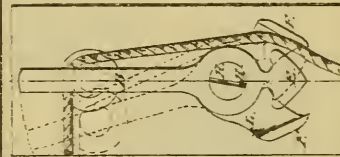
100,444, WILLIAM PRUETT.
SPRING SEAT FOR WAGONS.



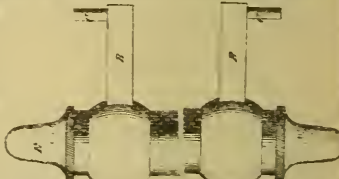
100,430, JAMES H. MALLORY.
FOLDING IRONING-TABLE.



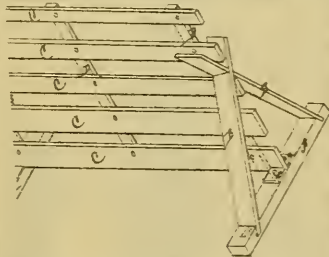
100,438, HARRISON OGBORN.
CLOTHES-LINE FASTENER.



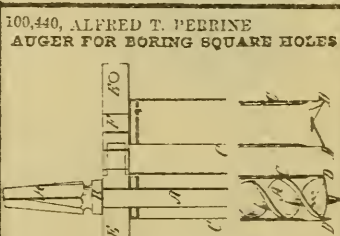
100,445, JAS. S. RAY. COFFIN-HANDLES.



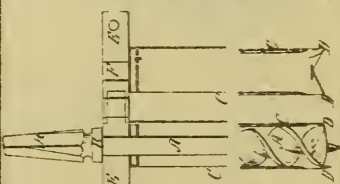
100,431, JOHN McCONNELL. FENCE.



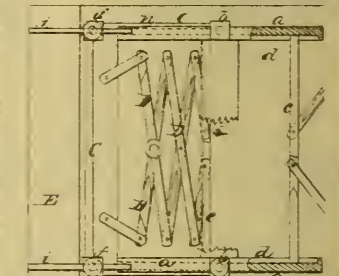
100,439, JOHN S. PEMBERTON. MEDICAL
COMPOUND FROM GLOBE FLOWER.



100,440, ALFRED T. PEBRINE
AUGER FOR BORING SQUARE HOLES



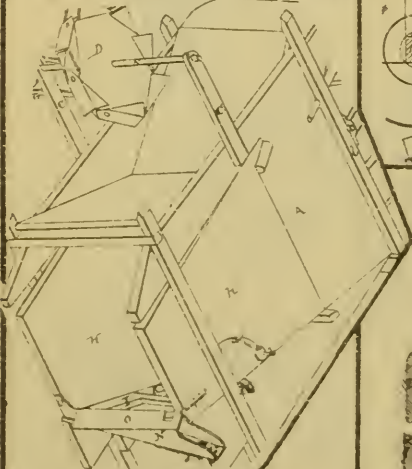
100,446, WM. REICHENBACH.
FRETTRICH ROSCHDIANTZKY
EXTENSION-TABLE.



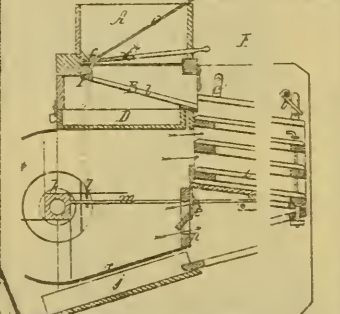
100,432, GEORGE McKENZIE.
MANUFACTURE OF ILLUMINATING
GAS FROM COAL AND
OTHER MATERIALS.

100,433, GEORGE McKENZIE.
MANUFACTURE OF ILLUMINATING-GAS

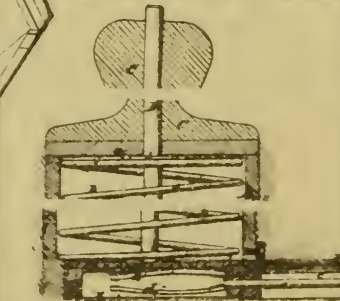
100,434, JAMES McPHAIL. GRAIN-FAN.



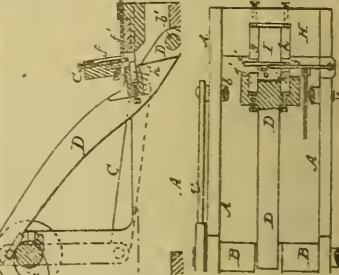
100,441, CHAUNCEY PERRY,
JAMES E. WHEAT.
GRAIN CLEANERS



100,442, A. WARNER PLATT.
CIRCUIT-CLOSER FOR ELECTRO-
MAGNETIC RAILROAD SIGNALS



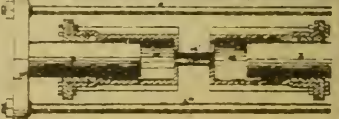
100,447, PHILEMON RICHARDS.
NAIL-CUTTING MACHINES.



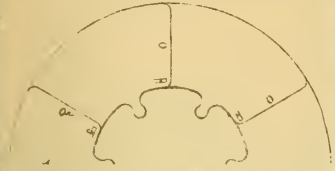
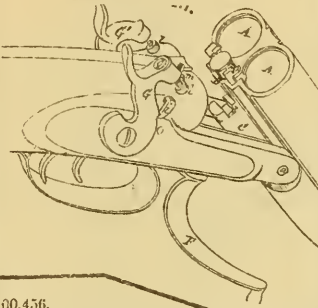
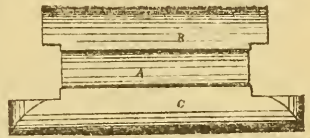
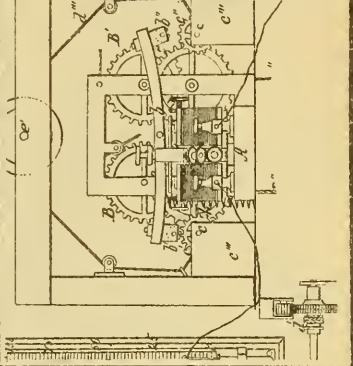
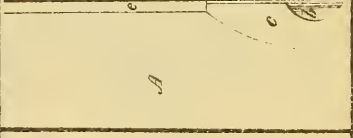
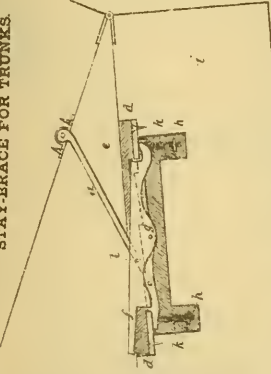
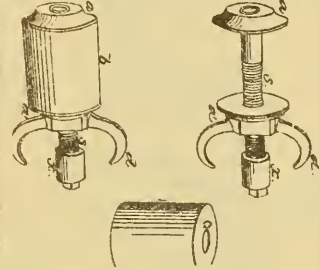
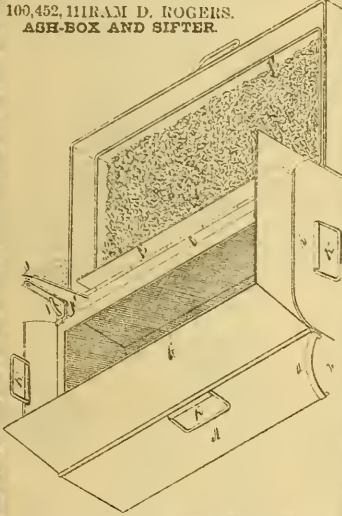
100,448, J. P. RIDER.
JAMES R. BIRD.
COVERING THE ENDS OF RUBBER HOSE



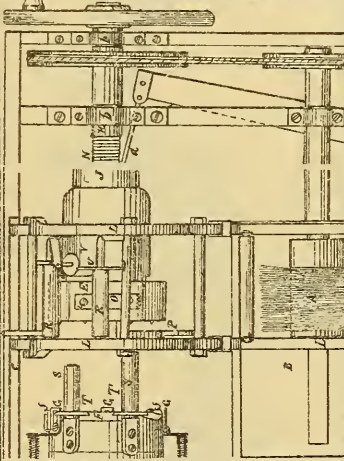
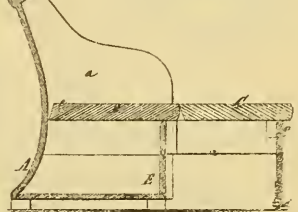
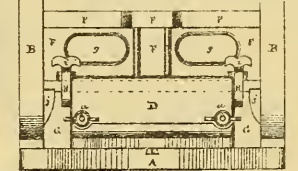
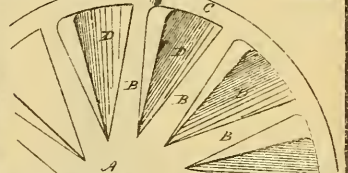
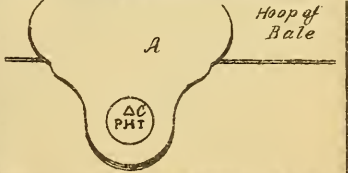
100,449, W. H. ROBERTS.
DEVICE FOR SECURING UNIFORM
MOTION IN PUMPING-ENGINES



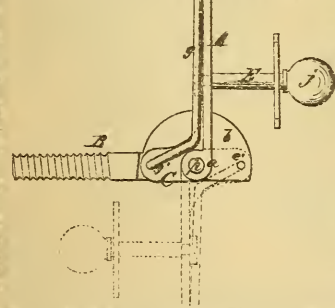
100,435, J. B. NEWBROUGH
MANUFACTURE OF HARD RUBBER.

100,450, WILLIAM ROBINSON.
LAMP-SHADES.100,455, EDWARD LEVI SARGENT.
BREACH-LOADING FIRE-ARMS100,461, WILLIAM D. ST. CLAIR.
THRESHOLDS.100,462.
ELECTRO-MAGNETIC REGULATOR
FOR DAMPERS OR VALVES.100,463, EDWIN A. STRATTON.
CHARLES M. STRATTON.
SPIRIT-LEVEL.100,451, JULES ROCH.
STAY-BRACE FOR TRUNKS.100,456.
EVERETT P. SCHUTT.
GAS AND WATER-PIPE PLUG.100,452, MIRAM D. ROGERS.
ASH-BOX AND SIFTER.100,457, CHARLES U. SHEPARD, JR.
PREPARING AMMONIATED SULPHURIC
ACID FOR THE MANUFACTURE
OF FERTILIZERS.

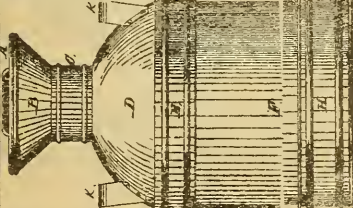
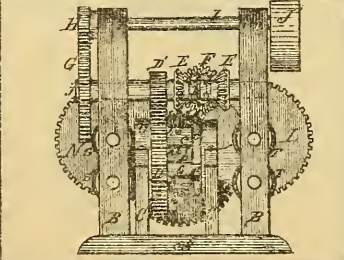
100,458, H. S. SHEPARDSON. BIT-BRACE

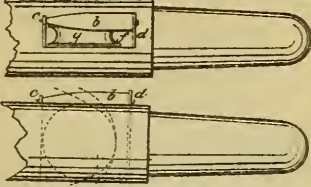
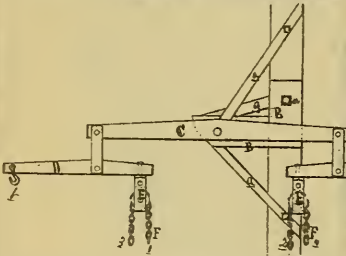
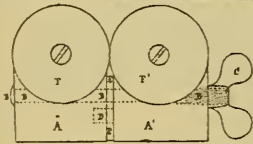
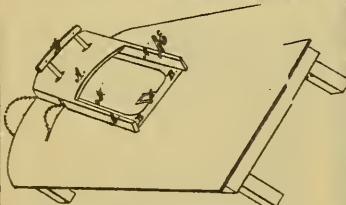
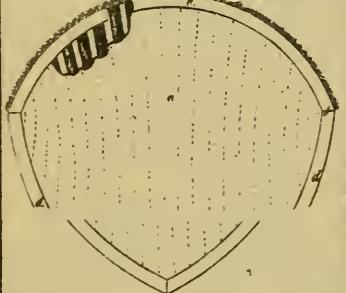
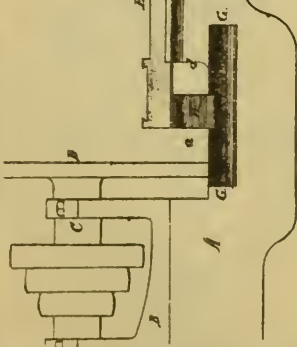
100,459, DANIEL SIMMONS.
PAPER-BOX MACHINES.100,464, M. SULZBACHER.
SOFA-BEDSTEAD.100,465, F. B. SWEETLAND
PAPER-CUTTING MACHINES.100,466, EDWARD LOUIS TAYLOR.
TOYS.100,467 P. H. TAYLOR.
LABELS FOR COTTON-BALES.

100,453, D. C. SAGE. BLIND-HINGES

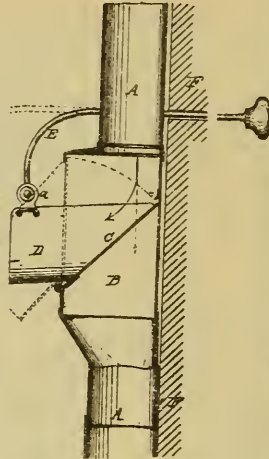


100,454, HUGH SANGSTER. MILK-CANS.

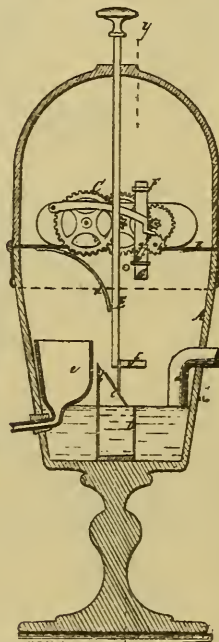
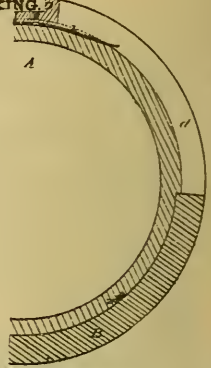
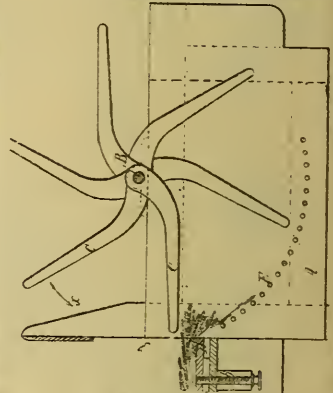
100,460, HORACE S. SMITH. MACHINE
WILLIAM HUGHES.
FOR CLEANING AND POLISHING TUBES.

100,468, FRANK THOITS.
FRICTION-ROLLS FOR YARD-ARMS.100,469, JOHN T. THORNTON.
THREE-HORSE EQUALIZERS.100,470, THOMAS VICKERY.
KNIFE-SHARPENERS.100,471, JOHN WALLING.
SAWING-MACHINE.100,472, JULIUS WATERMAN.
BOSOM-PADS.100,473, JAMES WATSON.
LATHES.

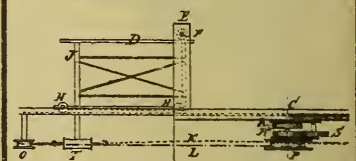
100,474,

J. P. WATSON.
CISTERN CUT-OFFS.

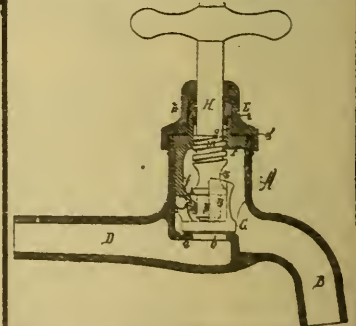
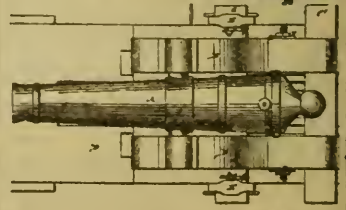
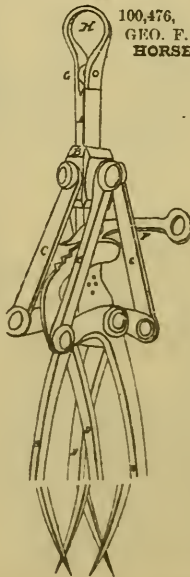
100,475,

A. WERKMEISTER.
LIQUID-
MEASURING AND REGISTERING DEVICE.100,477, WM. D. WHITMORE.
PISTON-PACKING.100,478, A. S. WHITTEMORE.
JOHN E. ALWOOD.
THRASHING-MACHINES.

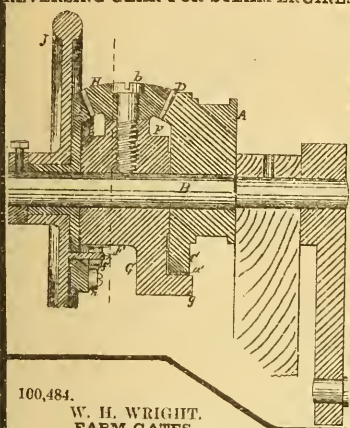
100,479. CANCELED.

100,480, JULIUS WILCKE. BRIDGE-GATE.
M. ELLENBOGEN.

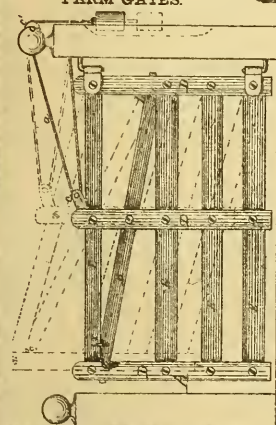
100,481, JAMES WILSON. VALVE-COCKS.

100,482, J. WALL WILSON.
GUN-CARRIAGES.100,476,
GEO. F. WEYMOUTH.
HORSE HAY-FORKS.

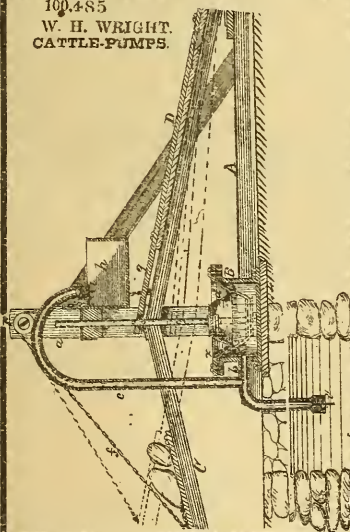
100,483, D. A. WOODBURY.
REVERSING-GEAR FOR STEAM-ENGINES.



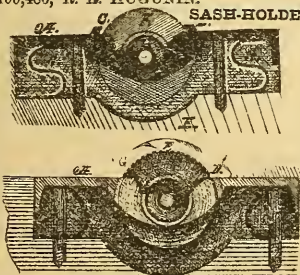
100,484.
W. H. WRIGHT.
FARM GATES.



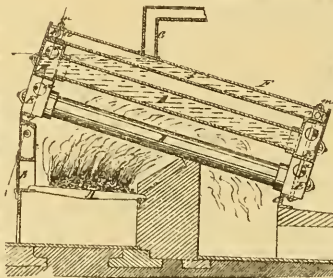
100,485
W. H. WRIGHT.
CATTLE-PUMPS.



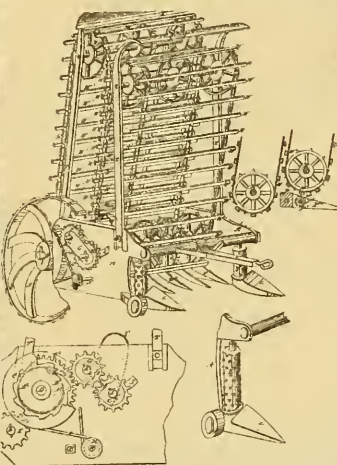
100,486, R. B. HUGONIN.
SASH-HOLDERS.



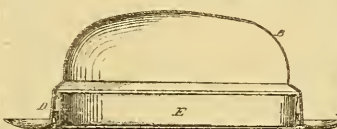
3,853, WM. P. ABENDROTH.
JOHN GRIFFITH.
G. W. WUNDRAM.
T. H. MÜLLER.
STEAM-GENERATORS



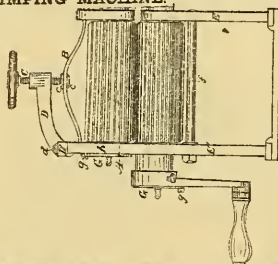
3,854, HORACE BAKER.
HAY-RAKER AND LOADER



3,855, JOHN P. BEATTY. HATS.

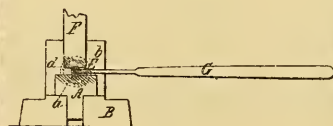


3,856, F. B. CABELL.
CRIMPING MACHINE.

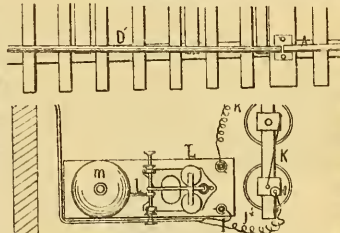


3,857, JAMES D. WHELPLEY.
JACOB J. STORER.
APPLICATION OF FUEL IN
METALLURGIC AND OTHER FURNACES.

3,858, O. M. DRAPER.
DEVICE FOR SWAGING CHAIN-LINKS.



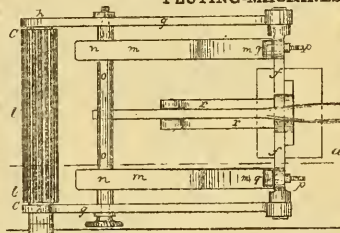
3,859, WM. A. CUMMINGS.
R. E. RICE.
ELECTRO-MAGNETIC ALARMS
FOR RAILROAD SWITCHES.



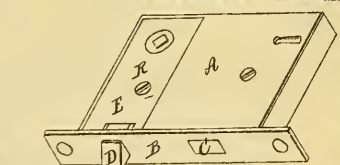
3,860, WM. CLEVELAND HICKS.
BREECH-LOADING FIRE-ARMS.



3,861, MRS. SUSAN R. KNOX.
FLUTING-MACHINES.



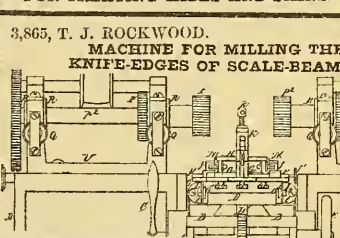
3,862, BURTON MALLORY.
REVERSIBLE LATCHES.



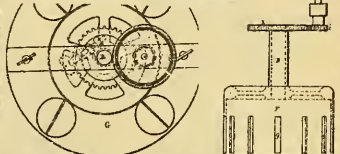
3,863, JOS. RECKENDORFER.
PENCILS.



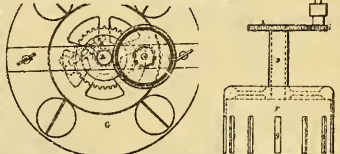
3,864, L. F. ROBERTSON. COMPOUNDS
FOR TREATING HIDES AND SKINS.



3,865, T. J. ROCKWOOD.
MACHINE FOR MILLING THE
KNIFE-EDGES OF SCALE-BEAMS

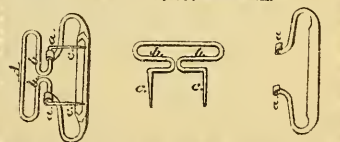


3,866, BRADFORD STETSON.
ELMER TOWNSEND.
TURBINE WATER-WHEELS.



3,867, JOSEPH A. TATRO.
PROCESS OF TREATING PETROLEUM

3,868, GEO. R. KELSEY. BUCKLE.

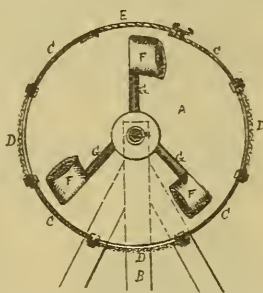
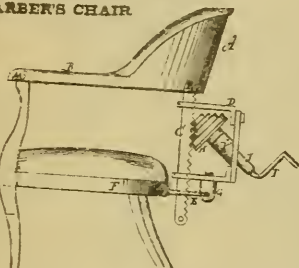
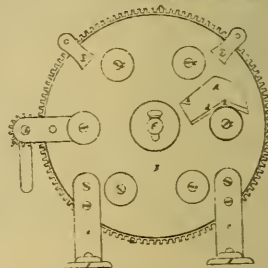
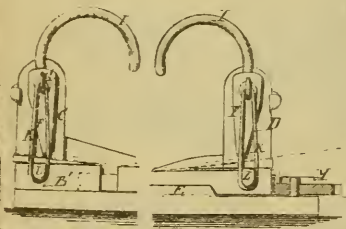
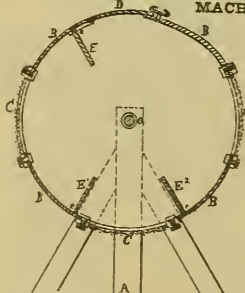
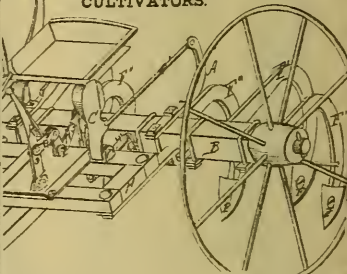
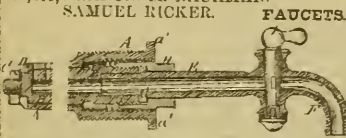
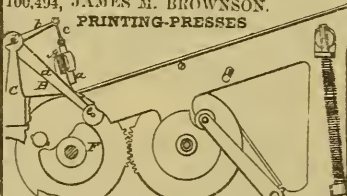


ILLUSTRATIONS OF PATENTS

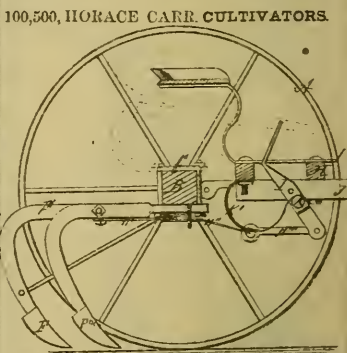
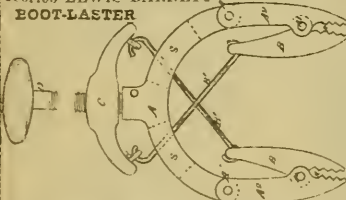
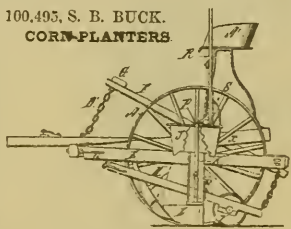
ISSUED FROM

THE UNITED STATES PATENT OFFICE

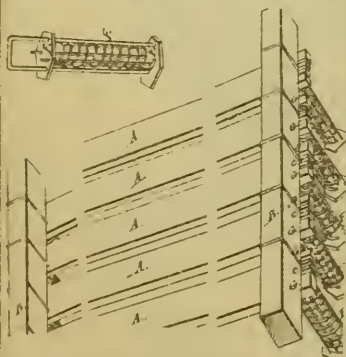
MARCH 8, 1870.

100,487, ANTHONY ABEL.
BARBER'S CHAIR.100,498, WILLIAM BUTTERFIELD.
CRIMPING-MACHINE.100,488, P. J. AYRES.
TIRE-UPSETTING MACHINE.100,493, J. W. BRADY. COFFEE-CLEANING
MACHINE100,499, HORACE CARR.
CULTIVATORS.100,489, FRANCIS M. BACHMAN.
SAMUEL RICKER. FAUCETS.100,494, JAMES M. BROWNSON.
PRINTING-PRESSES

100,500, HORACE CARR. CULTIVATORS.

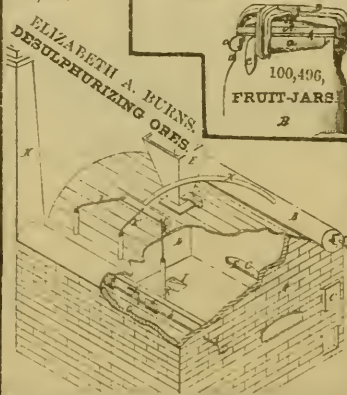
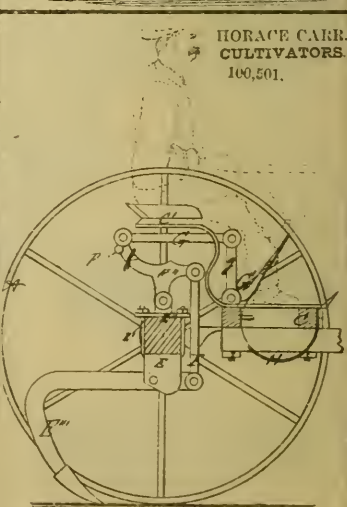
100,490 LEWIS BARNETT.
BOOT-LASTER100,495, S. B. BUCK.
CORN-PLANTERS

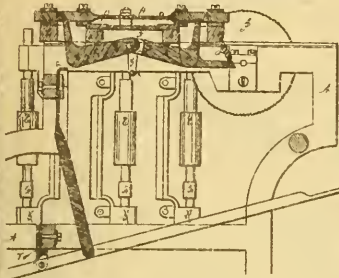
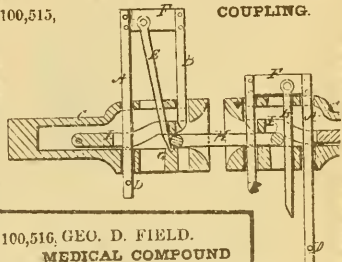
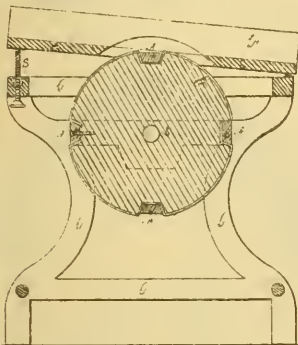
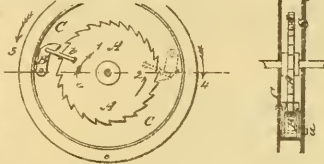
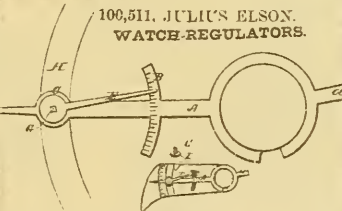
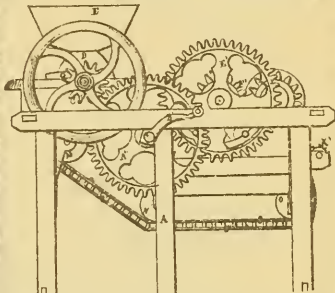
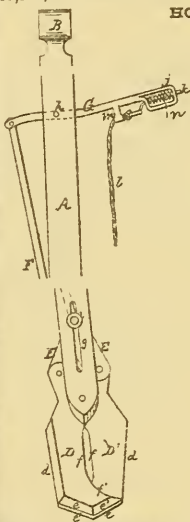
100,491, WILLIAM BOWEN. BED-BOTTOM.



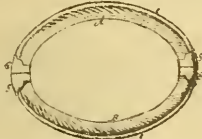
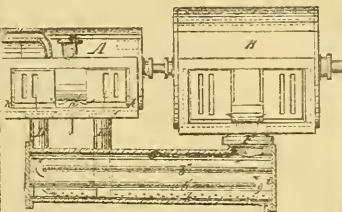
100,497.

IRA BUCKMAN, JR.

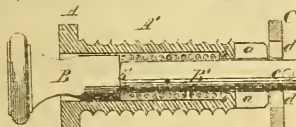
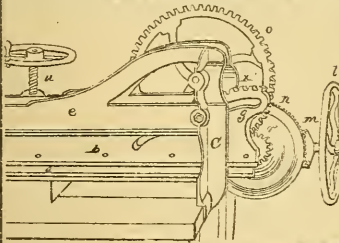
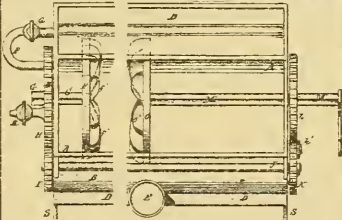
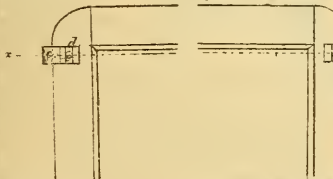
ELIZABETH A. BURNS.
DESULPHURIZING ORES.100,496,
FRUIT-JARS.100,492 J. W. BRADY.
COFFEE-CLEANING MACHINES.HORACE CARR.
CULTIVATORS.
100,501.

100,502, FRANK G. CHAPMAN.
MORTISING-MACHINES.100,509,
EDWIN O. DOW.
STOP FOR
BILLIARD-WIRES.WM. J. EVANS. RAILWAY-CAR
100,515, COUPLING.100,516, GEO. D. FIELD.
MEDICAL COMPOUND
OR OINTMENT.100,503, FRANK G. CHAPMAN.
MACHINE FOR POLISHING WOOD.100,510, JOHN H. DURRAN.
RATCHET AND PAWL.100,511, JULIUS ELSON.
WATCH-REGULATORS.100,517, W. K. FOLTZ. WINE AND
W. A. MCCOOL. CIDER-MILLS.100,518, ROLAND S. FRAME.
HORSE HAY-FORK.

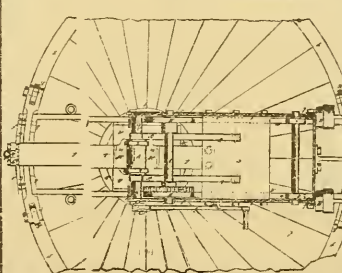
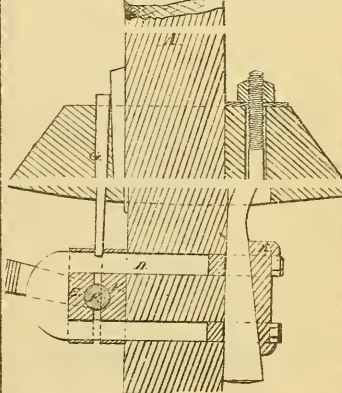
100,504, D. D. CODDING BRACELETS.

100,512, CHAS. E. EMERY.
STEAM AND WATER-SEPARATOR
FOR STEAM-ENGINES.

100,505, JAMES C. COOKE. SASH-BOLT.

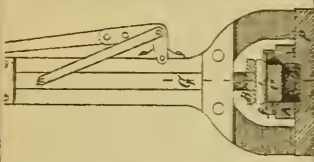
100,506, ARTHUR W. CURRIER
PAPER-CUTTING MACHINES.100,513, REV. F. M. ENGLISH.
WASHING-MACHINE.100,507, C. B. DICKINSON.
SLATE-FRAMES.

100,514, J. ERICSSON. GUN-CARRIAGES.

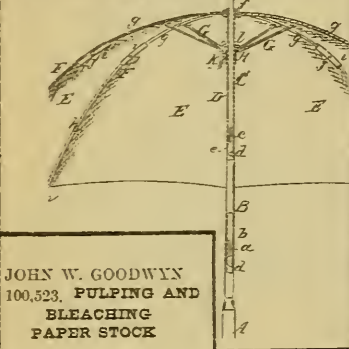
100,508, J. D. DIFFENDERFER.
SCHOOL-DESK AND SEAT.100,519, JOHN P. FRIEND.
BENJ. R. ANNABLE. HIDE-MILLS.

100,520, A. D. FULLMER. TANNING.

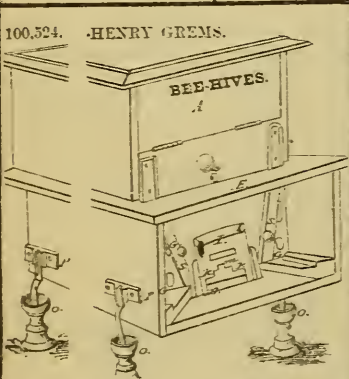
100,521, HENRY O. GANYARD.
DIE FOR FORMING SHOVELS.



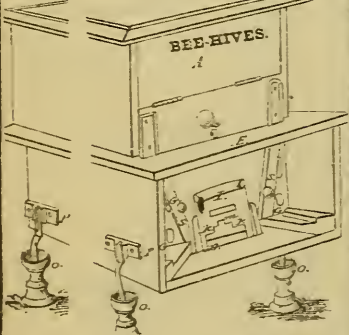
100,522, LOUIS GERLEN. HANDLES OF
FOLDING UMBRELLAS.



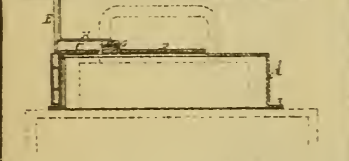
JOHN W. GOODWYN
100,523, PULPING AND
BLEACHING
PAPER STOCK



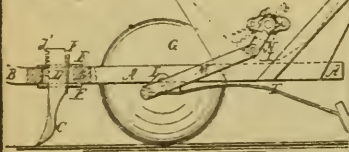
100,524, HENRY GREMS.



100,525, G. O. HANKS.
SAD-IRON HEATER



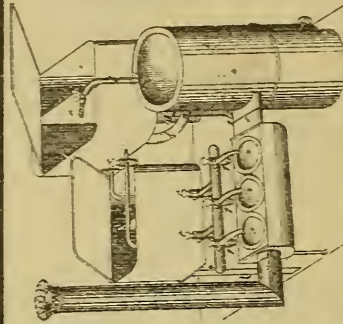
100,526, HENRY C. HARRIS.
COTTON-SEED PLANTER
AND FERTILIZER
DISTRIBUTOR



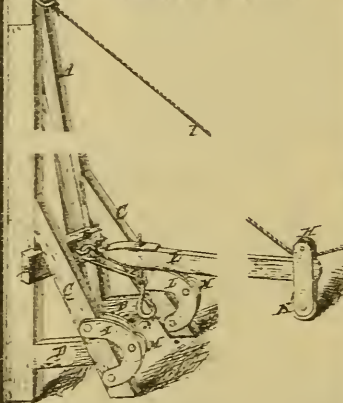
100,527, JAS. W. HAZLETT.
ICE-CHAMBER
FOR REFRIGERATORS



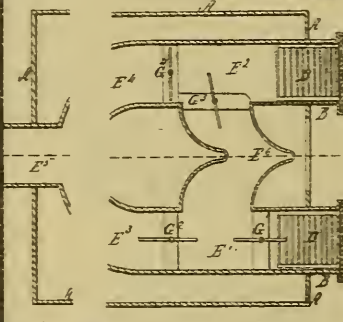
100,528, JACOB HEIM. EVAPORATING
SALT-BRINES AND OTHER LIQUIDS.



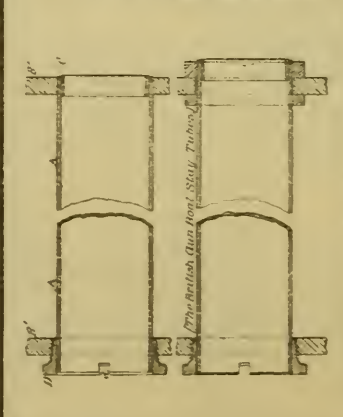
100,529, JOHNSON HIGGINS.
STUMP-EXTRACTORS



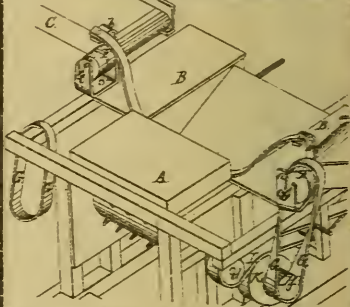
100,530, WILEY B. HIX.
FLUE FOR DRY-HOUSES.



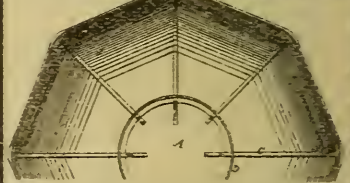
100,531, GEORGE P. HUNT.
TUBE-FASTENING FOR
STEAM-GENERATORS.



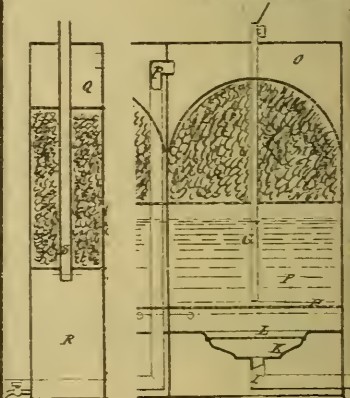
100,532, BENJAMIN F. JACKSON.
BYRON JACKSON.
GRAIN AND STRAW-CARRYING
ATTACHMENT
FOR SEPARATORS.



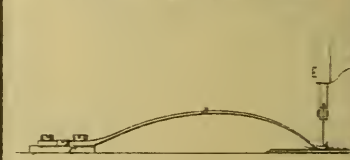
100,533, WILLIAM H. JOHNSON.
LAMP-SHADES.



100,534, CHARLES LAWRENCE.
CARBURETING AIR.



100,535, WILLIAM LEE. CORRUGATIONS
OF BOOT AND SHOE UPPERS.



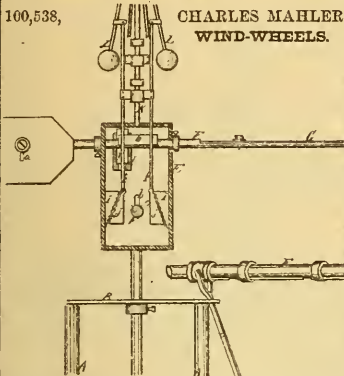
100,536,
E. C. LOUD.
STOVE-GRATE



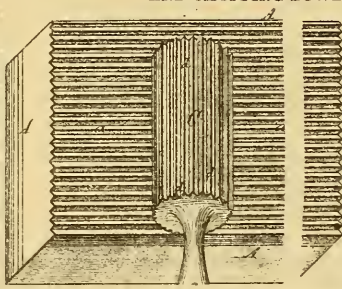
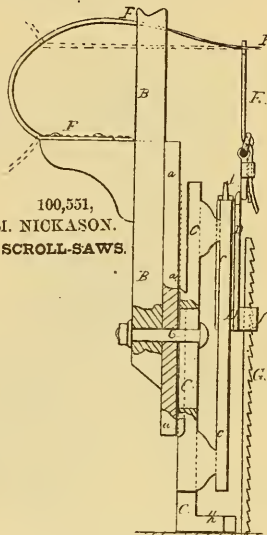
100,537 G. W. LOY. MILL-STONE DRESS.



100,538,

CHARLES MAHLER.
WIND-WHEELS.

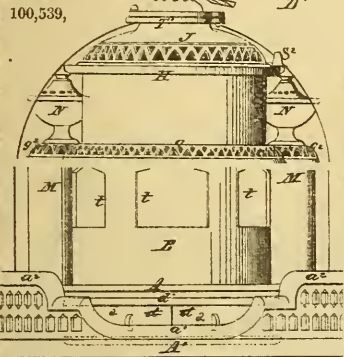
100,543, GEORGE B. MILL.

MEAT-POUNDER, BLOCK,
AND CHOPPING-BOWL.100,551,
G. M. NICKASON.
SCROLL-SAWS.

BASE-BURNING FIRE-PLACE HEATER.

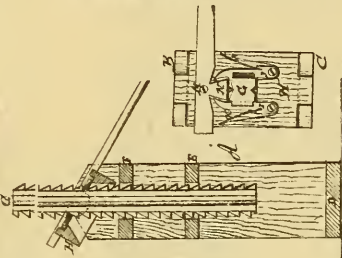
JOHN MARTINO.

100,539,

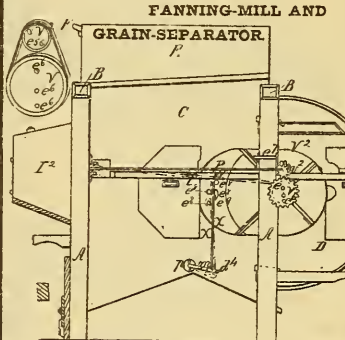


100,546, SAM'L. MILLER.

PRESSES FOR HAY, COTTON, &c.



100,552, HARRISON OGBORN.

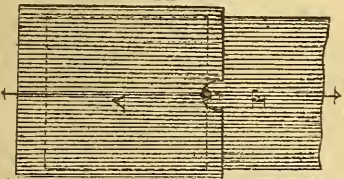
FANNING-MILL AND
GRAIN-SEPARATOR.

100,540, MARY JANE MCCOLL.

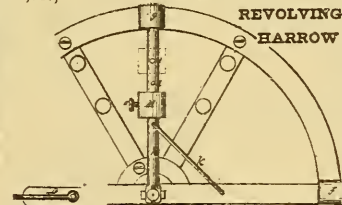
MANUFACTURE OF WAX-FLOWERS.

100,541, AUSTIN Z. MASON.

BEVEL-JAWED VISE.

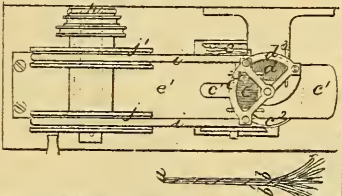
100,542, ABNER McOMBER.
MINA WARD. INSTRUMENT
FOR COUPLING RAILWAY-CARS.

100,547, HALSEY H. MONROE.

REVOLVING
HARROW.

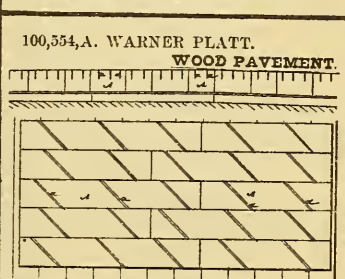
100,548, ROBERT MORRISON.

PREPARING BUTTON-HOLE TWIST.



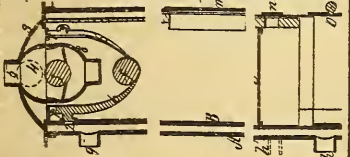
100,553, THOMAS L. OLDEN.

PURIFYING ACETIC ACID.

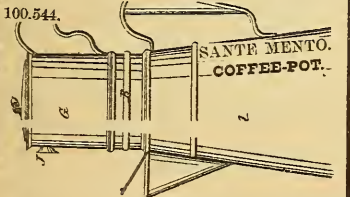
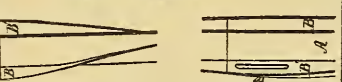


100,543, WILLIAM MELLER.

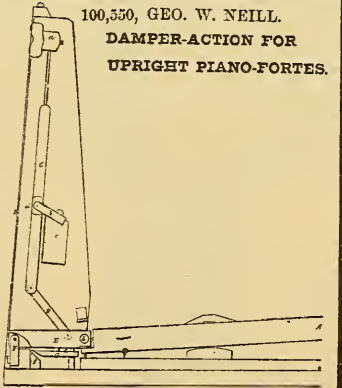
RAILROAD-CAR HEATERS.



100,544.

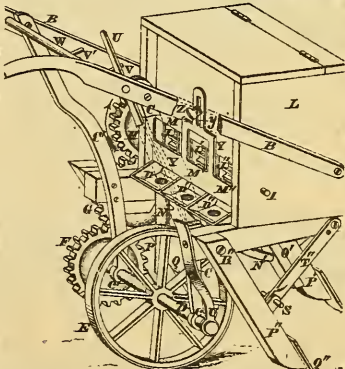
SANTÉ MENTO.
COFFEE-POT.100,549, DAVID MUNSON.
LIGHTNING-RODS.

100,550, GEO. W. NEILL.

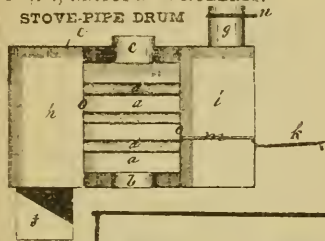
DAMPER-ACTION FOR
UPRIGHT PIANO-FORTES.

100,555, HIRAM PULSE.

GRAIN-DRILLS.

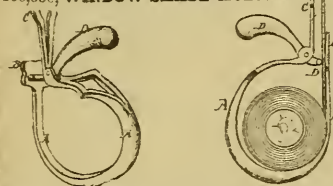
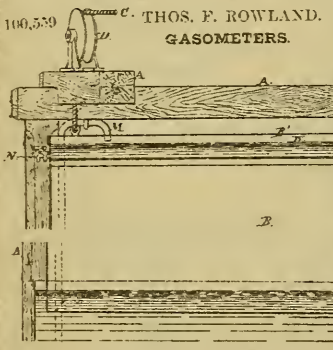
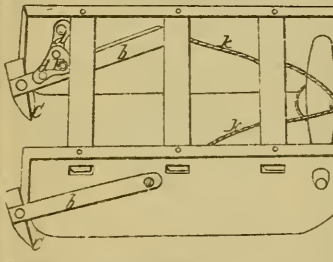
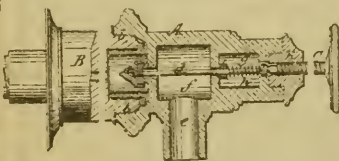
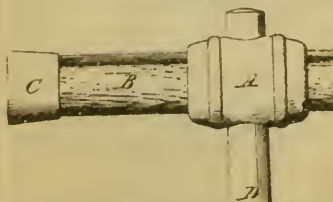
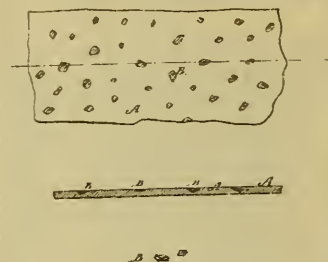


100,556, SUSPENDED.

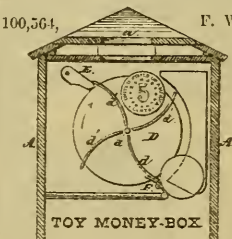
100,557, EDMUND D. ROBERTS.
STOVE-PIPE DRUM

EDWARD J. ROBINSON.

100,558, WINDOW-SHADE HOLDER.

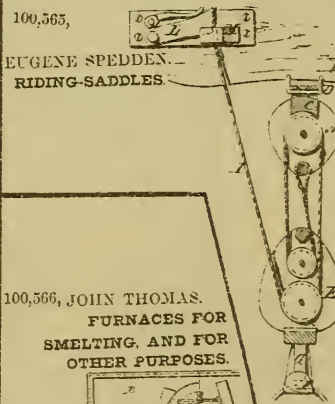
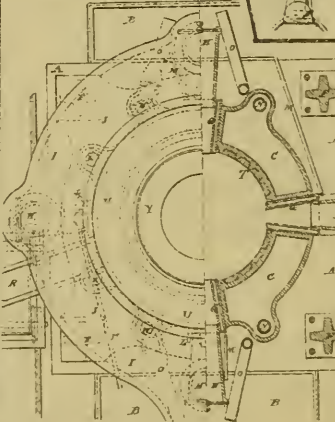
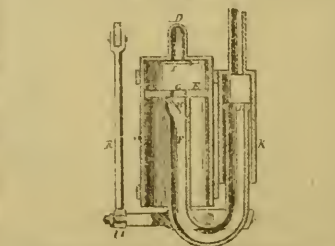
100,559, THOS. F. ROWLAND.
GASOMETERS.100,560, GEORGE W. SANBORN.
SLED-ERAKES.100,561, CARL SCHULTZ.
THOMAS WARKER.
SELF-CLOSING FAUCETS.100,562, SAMUEL C. SEARLES.
CALKERS' Mallet.100,563, SIMON P. SIVER.
FELTED FABRICS.

100,564, F. W. SMITH, JR.

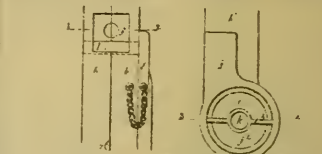
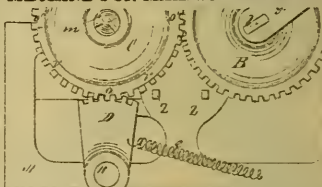
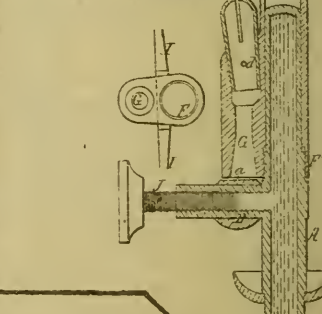
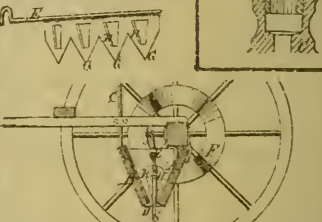
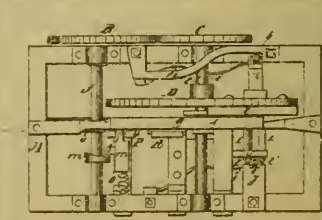


TOY MONEY-BOX

100,565,

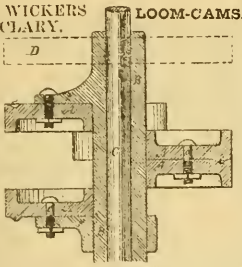
EUGENE SPEDDEN.
RIDING-SADDLES.100,566, JOHN THOMAS.
FURNACES FOR
SMELTING, AND FOR
OTHER PURPOSES.100,567, WILLIAM L. THOMAS.
BALANCED WATER-ELEVATOR.

100,568, G. ULMANN. SEAL-LOCKS.

100,569, WILLIAM W. WAFF.
BED-BOTTOM.100,570, EDWIN WASSSELL.
MACHINE FOR MAKING HORSESHOES.100,571, JOHN J. WATSON.
STOVE-SHELF AND DRIER.100,572, HENRY WELLINGTON.
VAPOR-BURNERS.100,573, T. J. WEST.
FERTILIZER-SOWER.100,574, CHARLES W. WETTENOEL.
MACHINE FOR MAKING HORSESHOES.

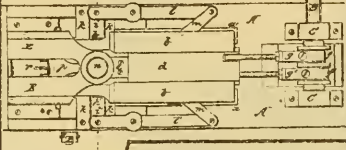
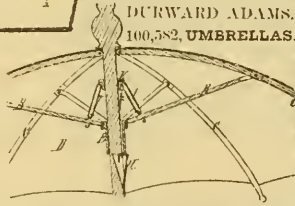
GEO. O. WICKERS
T. J. McCLARY.

100,575,



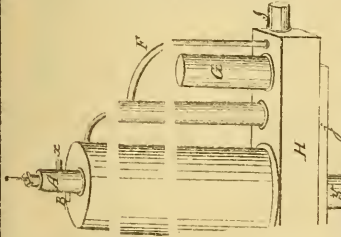
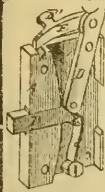
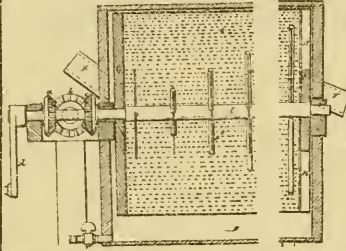
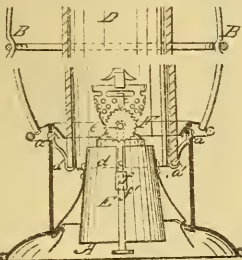
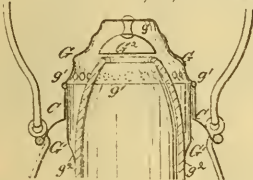
LOOM-CAMS.

100,581,

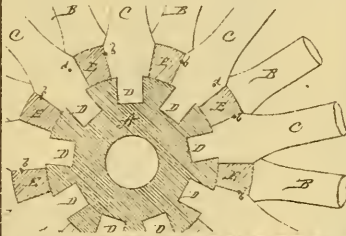
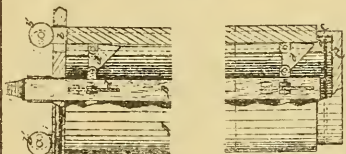
JOHN R. ABBE.
BOLT-MACHINE.DURWARD ADAMS.
100,582, UMBRELLAS.

100,576, MARTIN WILCOX.

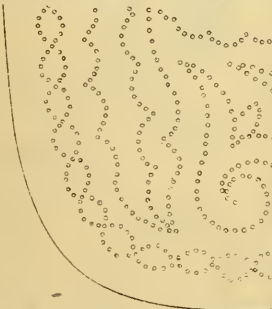
STEAM-PUMP DEVICES.

100,583, E. D. AVTRELL.
JOSEPH MALAN.
VEGETABLE AND FRUIT-PEELER.100,577, JAMES WILKINSON.
IN SASH-HOLDERS.ARNOLD WITHMAR.
100,578, LANTERNS.

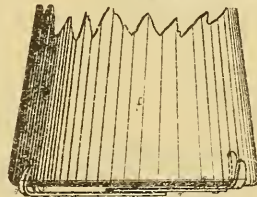
100,584, J. R. BAIRD. CARRIAGE-WHEELS.

100,585, ANSON BALDING.
EXPANSIBLE CORES FOR
CASTING IRON, GLASS, &c.

100,579. W. P. WOLFINGTON.

METHOD OF LAYING OFF PATTERNS
FOR STITCHING ON LEATHER.

100,586, E. W. H. BASS.

MUSTACHE-GUARD
FOR DRINKING-VESSELS.

100,587, C. G. BAYLOR.

AN ARTICLE OF DIET.

100,588, EZRA BLAKELEY.

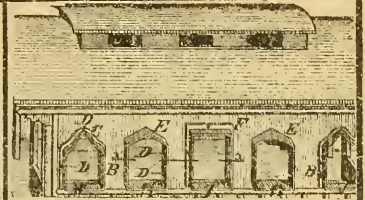
PAINT COMPOUND.

100,580, E. G. WRIGHT.

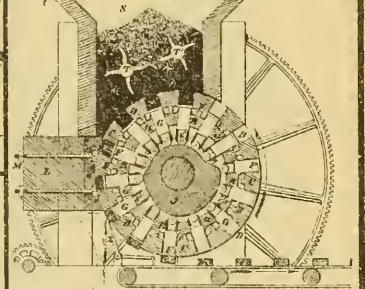
INLAYING METALLIC SURFACES.

100,589, ISAAC BONNELL, JR.

RAILROAD-CAR VENTILATOR.



100,590,

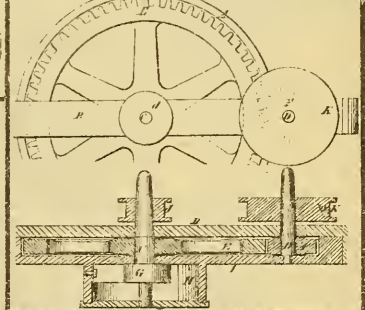
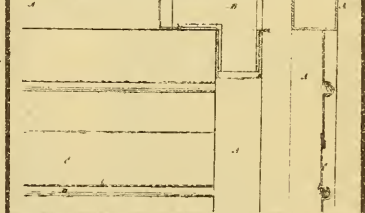
GEORGE C. BOVEY.
BRICK-MACHINES.

100,591, THOS. BRACHER.

WATER-PROOF FABRIC.

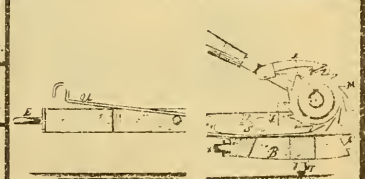


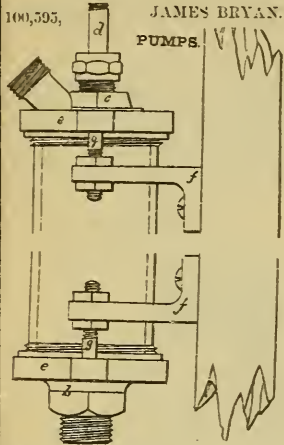
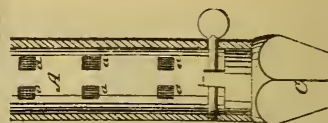
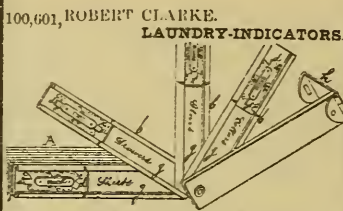
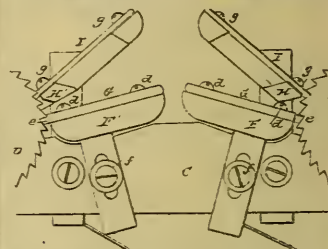
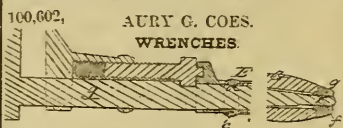
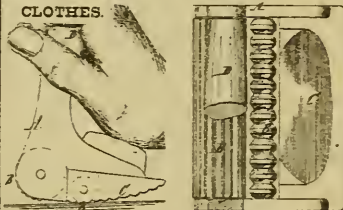
100,592, HENRY L. BEEVOORT.

REDUCING-GEAR FOR STEAM-ENGINE
INDICATORS.100,593 W. E. BROCK.
BLINDS.

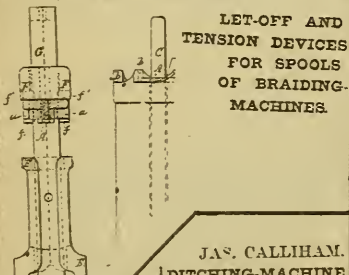
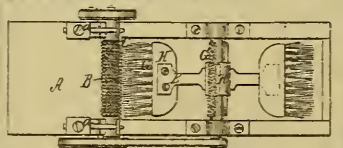
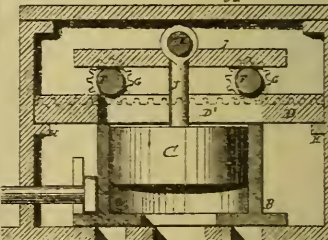
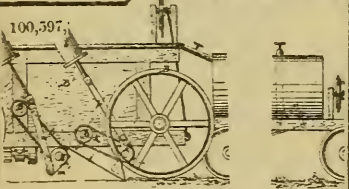
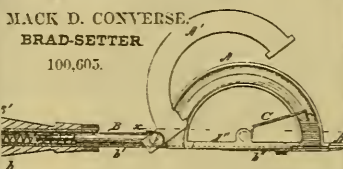
100,594, JOHN S. BROWN.

ADJUSTABLE WINDLASSES.

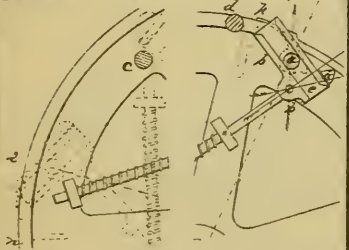


100,595, JAMES BRYAN.
PUMPS.100,601, ROBERT CLARKE.
LAUNDRY-INDICATORS.100,610, SETH C. ELLIS.
MACHINE FOR MAKING SASH100,602, AURY G. COES.
WRENCHES.100,603, G. F. J. COLBURN.
HAND-RUBBER FOR WASHING
CLOTHES.100,611, COMBINED HAY-KNIFE AND
PRUNING-HOCK

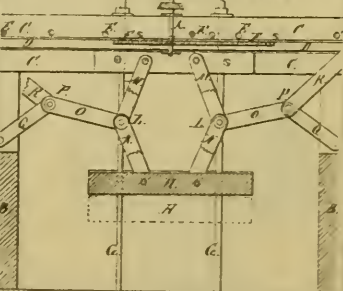
100,596, JAMES D. BUTLER.

LET-OFF AND
TENSION DEVICES
FOR SPOOLS OF
BRAIDING-
MACHINES.100,604, NOAH L. COLE.
MACHINE FOR PICKING CURLED HAIR100,612, JAMES FITZGERALD
BALANCE SLIDE-VALVEJAS. CALLIHAN.
DITCHING-MACHINE100,597, MACK D. CONVERSE.
BRAD-SETTER

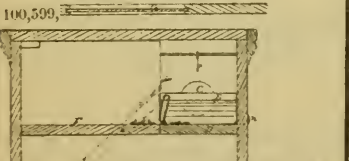
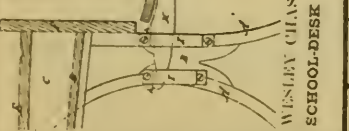
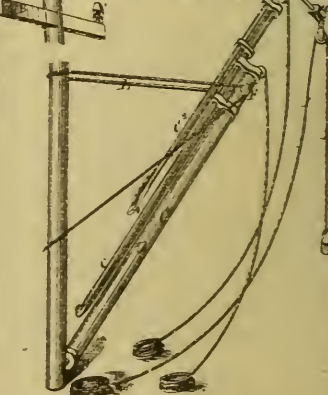
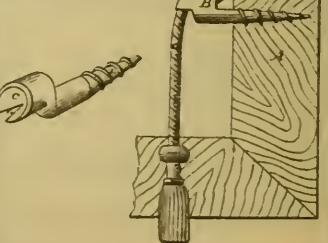
100,605.

100,598, ANDREW CAMPBELL.
PRINTING-PRESSES.G. W. COREY,
THOMAS LOSIE. FLOATING SHIPS.

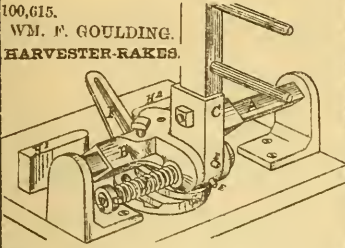
100,606, DEXTER CURTIS. PRESSES.

100,608, E. J. DE SMEDT. COMPOSITION
FOR PRESERVING TIMBER AND WOOD100,609, SAMUEL H. DICKERSON.
WELL-BORER

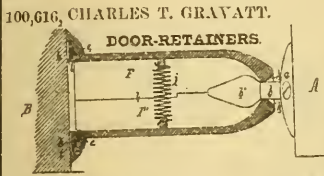
H. C. CASE. ANIMAL-TRAP.

100,600, WESLEY CHASE.
SCHOOL-DESK AND SEAT100,613, GEORGE FLEMING.
POLE-ASCENDING
APPARATUS100,614, GEO. S. GLADDING.
IMPROVED CORD-HOLDER
FOR WINDOWS, &c.

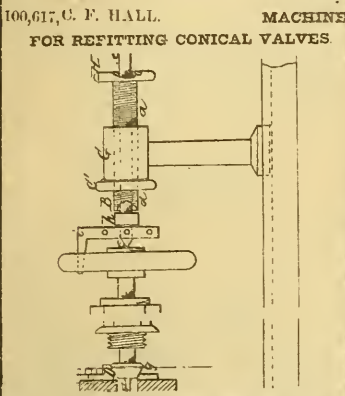
100,615.
WM. F. GOULDING.
HARVESTER-RAKES.



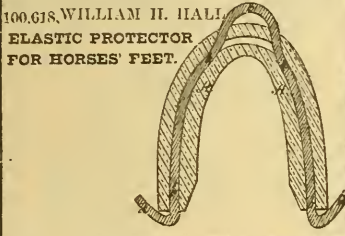
100,616, CHARLES T. GRAYATT.
DOOR-RETAINERS.



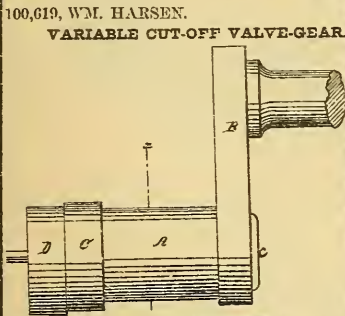
100,617, C. F. HALL. MACHINE
FOR REFITTING CONICAL VALVES



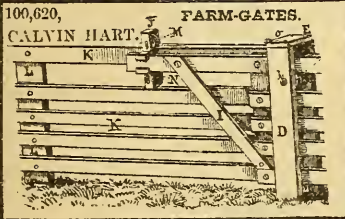
100,618, WILLIAM H. HALL.
ELASTIC PROTECTOR
FOR HORSES' FEET.



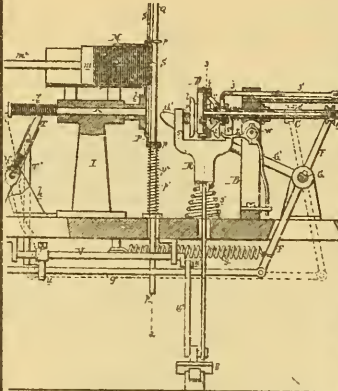
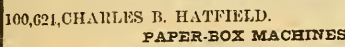
100,619, WM. HARSEN.
VARIABLE CUT-OFF VALVE-GEAR.



100,620,
CALVIN HART. FARM-GATES.



100,621, CHARLES B. HATFIELD.
PAPER-BOX MACHINES.



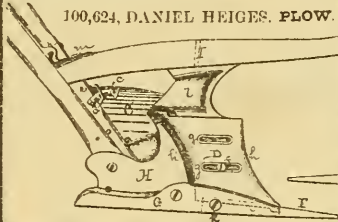
100,622, W. W. HAWLEY.
SELF-WAITING TABLE.



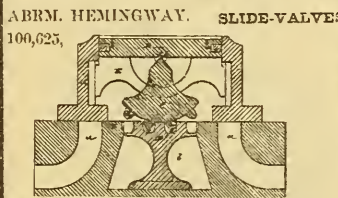
MARSHAL HAYS.
100,623,
WATER-GATES.



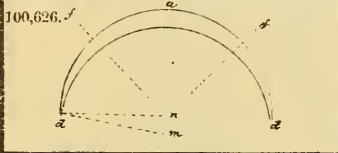
100,624, DANIEL HEIGES. FLOW.



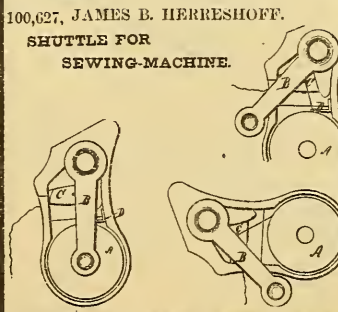
ABRM. HEMINGWAY. SLIDE-VALVES.
100,625,



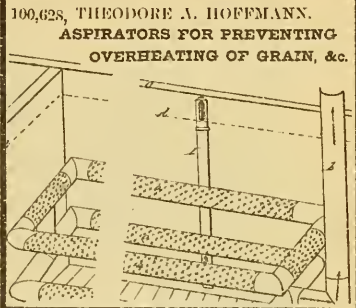
B. T. HENRY. CARRIAGE-SPRINGS.



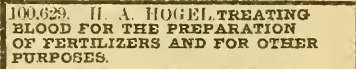
100,627, JAMES B. HERRESHOFF.
SHUTTLE FOR
SEWING-MACHINE.



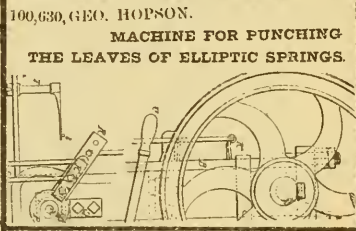
100,628, THEODORE A. HOFFMANN.
ASPIRATORS FOR PREVENTING
OVERHEATING OF GRAIN, &c.



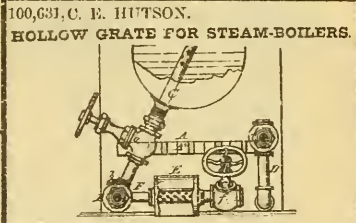
100,629, H. A. HOGE. TREATING
BLOOD FOR THE PREPARATION
OF FERTILIZERS AND FOR OTHER
PURPOSES.



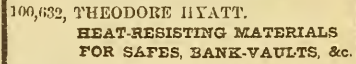
100,630, GEO. HOPSON.
MACHINE FOR PUNCHING
THE LEAVES OF ELLIPTIC SPRINGS.



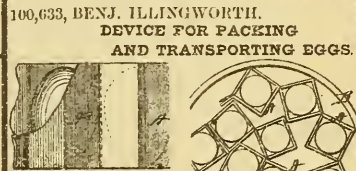
100,631, C. E. HUTSON.
HOLLOW GRATE FOR STEAM-BOILERS.



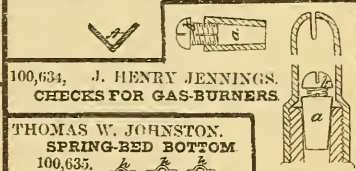
100,632, THEODORE HYATT.
HEAT-RESISTING MATERIALS
FOR SAFES, BANK-VAULTS, &c.



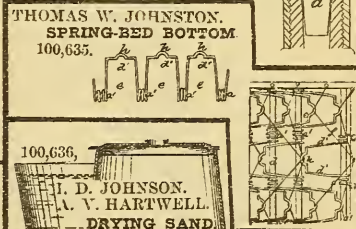
100,633, BENJ. ILLINGWORTH.
DEVICE FOR PACKING
AND TRANSPORTING EGGS.



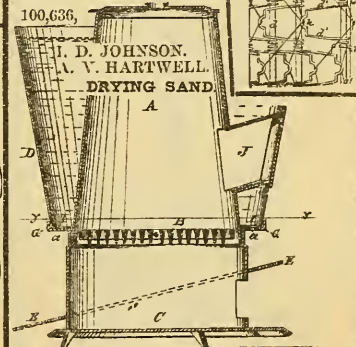
100,634, J. HENRY JENNINGS.
CHECKS FOR GAS-BURNERS.



THOMAS W. JOHNSTON.
SPRING-BED BOTTOM
100,635.



100,636,
J. D. JOHNSON.
A. V. HARTWELL.
DRYING SAND.

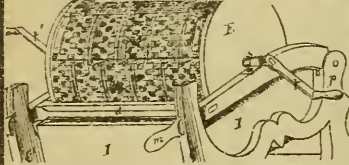


100,637.



100,638, HENRY A. JONES.
TABLET, TOKEN, OR CHECK,
TO BE USED IN LIFE INSURANCE

100,639, JOHN M. KEATING.
PEANUT-CLEANING
AND POLISHING-MACHINES.



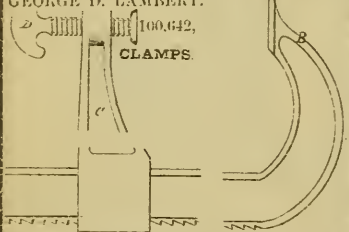
100,640, J. M. KEET MUCILAGE-HOLDERS.



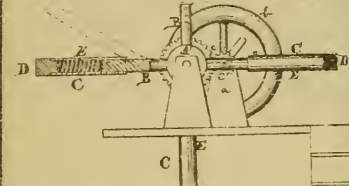
WILLIAM J. KEET STOVE-PIPE DAMPER
100,611.



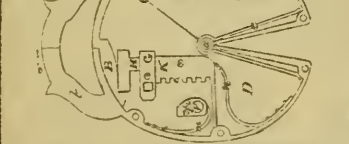
GEORGE D. LAMBERT.



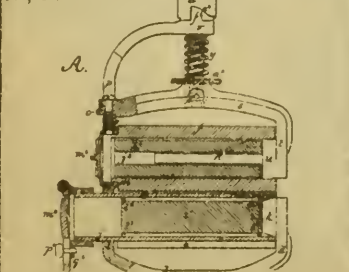
100,643, SYLVESTER L. LANGDON.
MOTIVE POWER FOR CARRIAGES



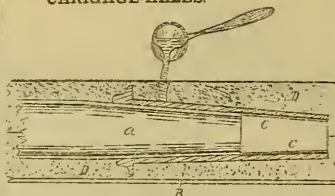
100,644, TOLBERT LANSTON.
PADLOCKS.



THOMAS LEAVITT FLUTING-MACHINES
E. L. HOWARD.
100,645.

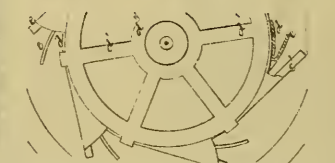
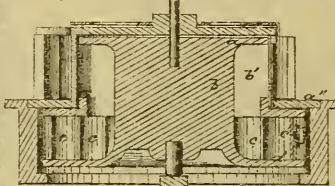


100,646, WILLIAM A. LEWIS.
CARRIAGE-AXLES.



100,647, ORAZIO LUGO.
TREATING LIQUORS
CONTAINING GELATINE OR GLUE

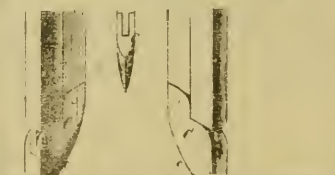
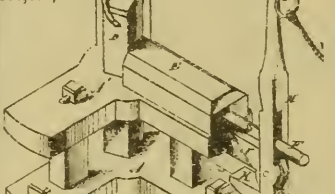
100,648, S. MARTIN. WATER-WHEELS.



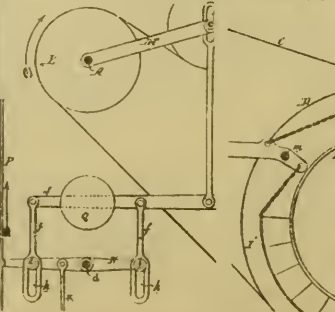
100,649, W. B. MASON.
FLAT-IRON POLISHER AND HOLDER.



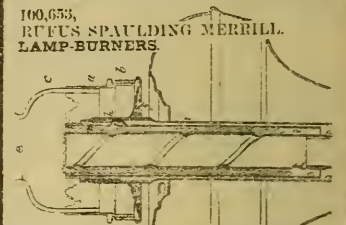
J. M. McDONALD, HORSE HAY-FORK
100,650.



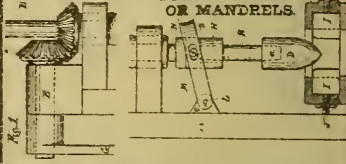
WILLIAM HENRY MERRICK.
SAFETY-MECHANISM
FOR HOISTING-APPARATUS.



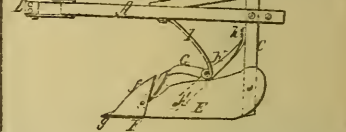
100,652, JOSHUA MERRILL.
COMPOUND FOR STUFFING LEATHER.



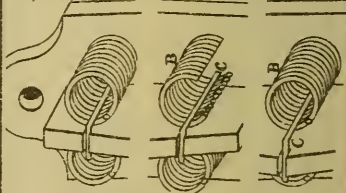
100,653, RUFUS SPAULDING MERRILL.
LAMP-BURNERS.



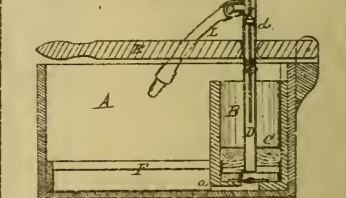
100,655, L. H. OLMSTED.
CULTIVATORS.



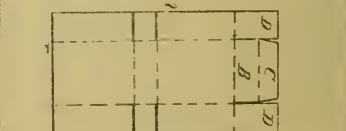
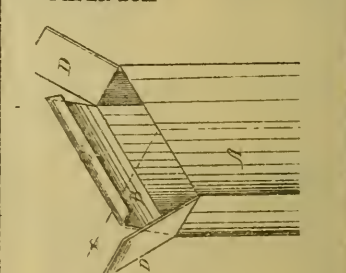
100,656, WALTER NOTMAN, CARD-RACKS



100,657, MERRILL S. ORTON, C.
PETER B. STILES.
DISH-WASHER.

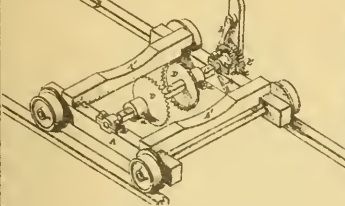


100,658, B. OSBURN.
PAPER BOX

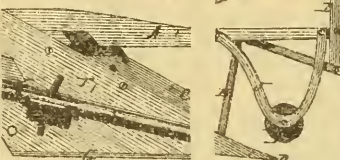


100,659, J. L. OTIS, EMERY-WHEELS

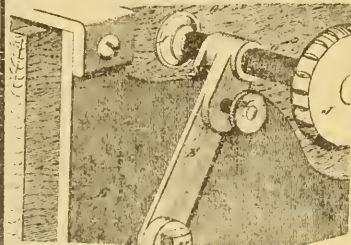
ANDREW G. PARK.
100,660, SAWING-MACHINES.



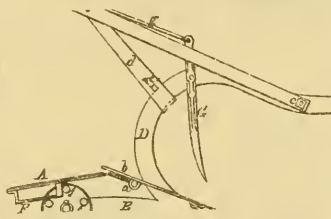
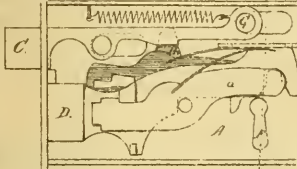
100,667, W. R. PRINCE.
POTATO-DIGGERS.



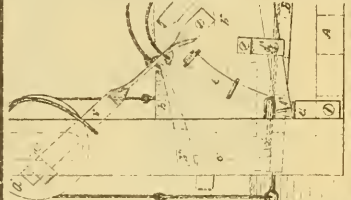
100,672, ANTON SCHMACKERS.
MORTISING-MACHINES.



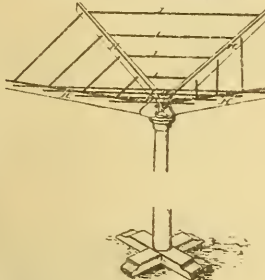
F. P. PELEGHAR.
100,661, COMBINED LATCH AND LOCK.



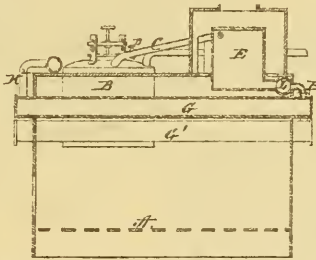
100,673, JOHN Q. A. SCHOONOVER.
WATER-CURRENT MOTORS.



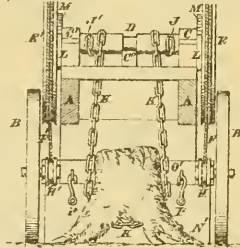
100,662, RUSSELL PHILLIPS.
CLOTHES-DRIER.



100,668, A. C. RAND.
MANUFACTURE OF
ILLUMINATING GAS.



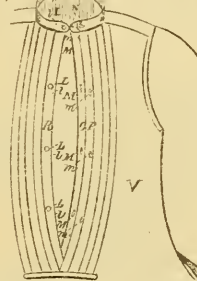
HENRY SCHWARTZ.
100,674, STUMP-EXTRACTORS.



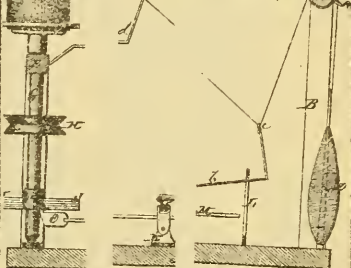
100,663, LEVI PIERCE. MODE OF SUSPENDING
MIRRORS TO FURNITURE.



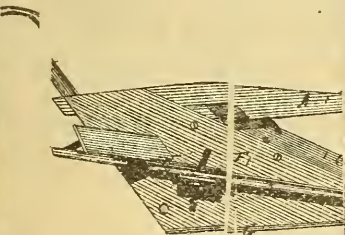
CHARLES O. RICHTER.
100,669, REVERSIBLE SHIRTS.



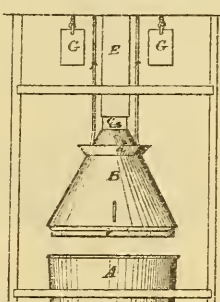
SAMUEL SEMPLE, JR. STOP-MOTION
FOR SPOOLING-MACHINES.
100,675,



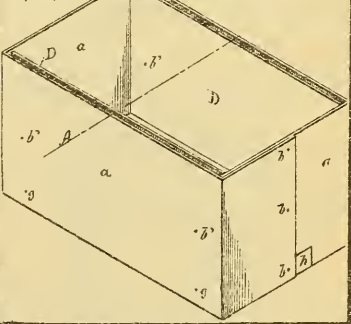
100,664, WILLARD PIERCE, DITCHING-MACHINES.



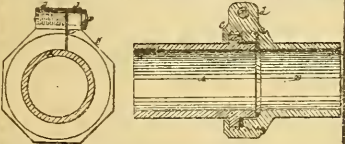
100,670, THOS. E. ROGERS.
DYE-VATS.



FRUIT TRANSPORTATION BOXES.
100,676, WALTER SHAW.



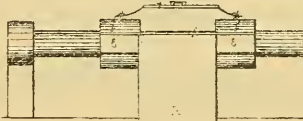
100,665, ROBERT M. POTTER.
UNION-COUPPLINGS FOR PIPES.



100,666, E. FREEMAN PRENTISS.
TELEGRAPH-POLES.



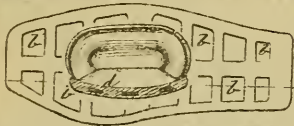
BOZIL S. ROY LUBRICATING 100,671,
THE TRAVERSING-GUIDE
IN MACHINES FOR FEEDING
CARDING-ENGINES.



FREDERICK M. SHEPARD.
HEELS OF RUBBER BOOTS AND SHOES.
100,677,

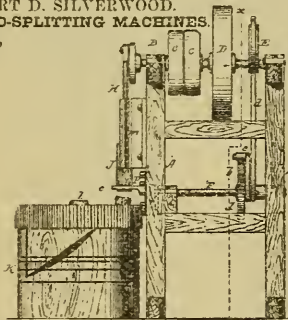


100,678, FREDERICK M. SHEPARD.
SOLES OF RUBBER BOOTS AND SHOES.

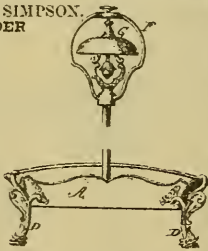


ROBERT D. SILVERWOOD.
WOOD-SPLITTING MACHINES.

100,679,

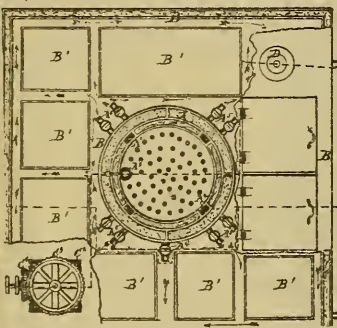


100,680, SAMUEL SIMPSON.
SPOON-HOLDER
AND BELL



APPARATUS FOR REFRIGERATING
AND PRESERVING.

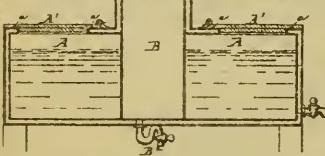
100,681, D. E. SOMES.



COOLING AND PRESERVING-TANK.

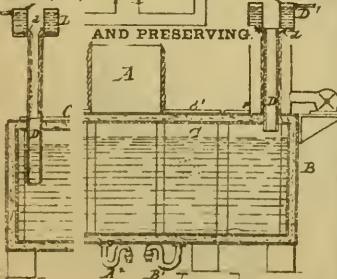
100,682,

D. E. SOMES.



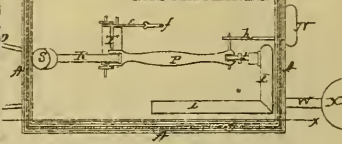
D. E. SOMES, APPARATUS FOR COOLING
AND PRESERVING.

100,683,

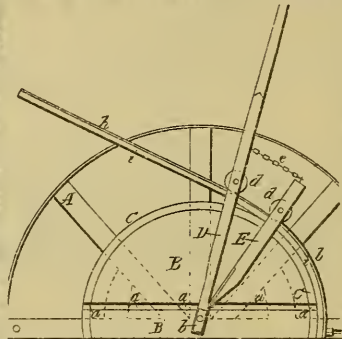


100,684,

DAVID A. SPRINKLE.
GAS-MACHINES.



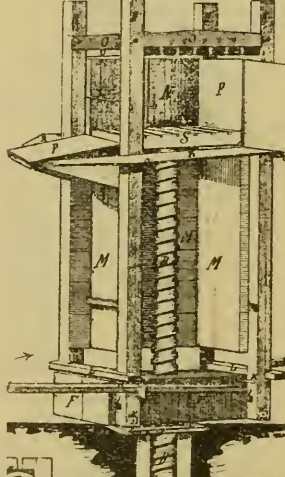
100,685, THEODOR G. SPRINGER.
MACHINE FOR BENDING FELLOES.



100,686, J. M. STAMP.
TOOL FOR LACING BELTS.



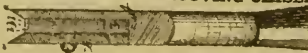
100,687, GEORGE W. SWIFT.
HAY AND COTTON-PRESSES.



100,688, FRANK C. TEGETTHOFF.
ROOFING COMPOUND.

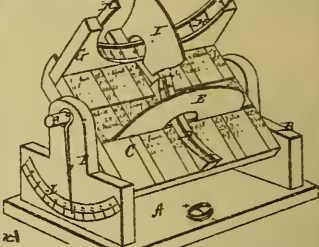
100,689, C. TELLIER.
MANUFACTURE OF ICE, AND
COOLING AIR, LIQUIDS, &c.

100,690, H. G. TERWILLIGER.
GROOVING-CHISEL.

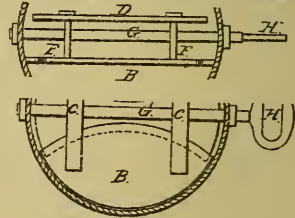


L. IGNATIUS TRUEG.
SUN-DIALS.

100,691,

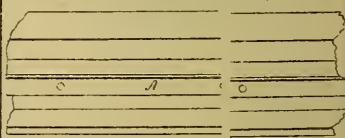


100,692, JOSEPH P. TUTTLE. DAMPERS.



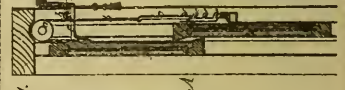
JACOB VALENTINE. RAILWAY-RAIL
FRANCIS HARRIS, JUN
CHAUNCEY BARNES.

100,693, SPLICE.



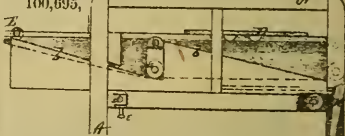
A. VAN PATTEN. 100,694,
J. F. KELSEY.

SASH-HOLDERS.

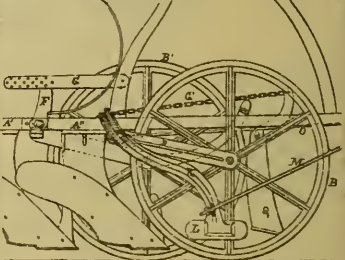


LOUDUS B. WALKER.
PLANING-MACHINES.

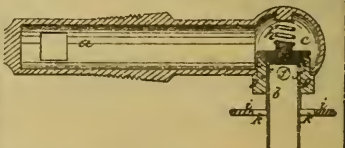
100,695,



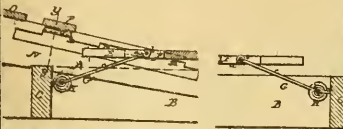
100,696, LEWIS T. WEBSTER.
PLOW.



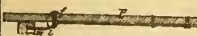
100,697, ALFRED WEED.
SELF-CLOSING AUGER STOP-COCKS.



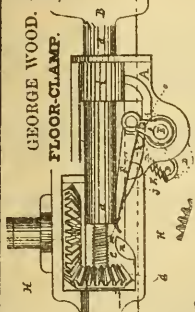
100,698, WILLIAM WELLS.



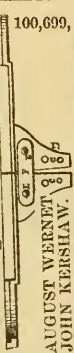
SPRING-BED BOTTOM



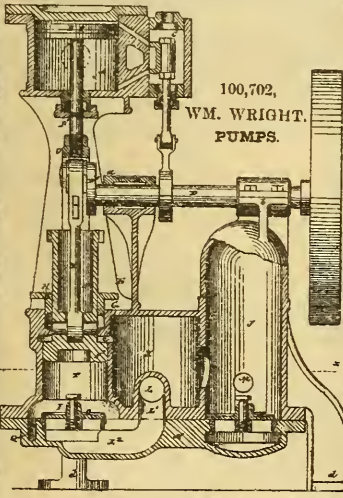
100,700.

GEORGE WOOD.
FLOOR-CLAMP.

CONSTRUCTION OF STOVE-PLATES.

AUGUST WERNET.
JOHN KERSHAW.

100,701.

JOHN L. WOODEN.
COLLAR AND HAMES100,702,
WM. WRIGHT.
PUMPS.

100,703, HENRY FOWLER.

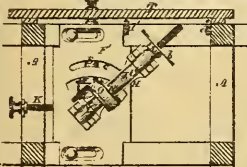
MUFF AND COLLAR-BOX



100,704.

HENRY H. BASHORE.

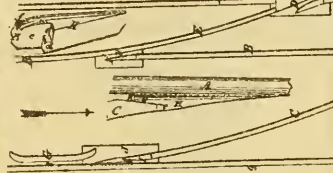
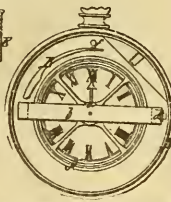
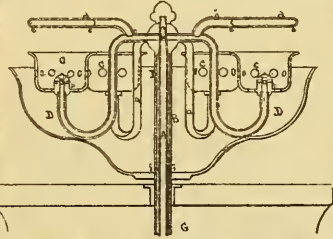
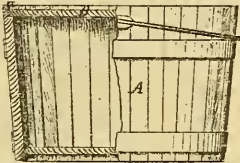
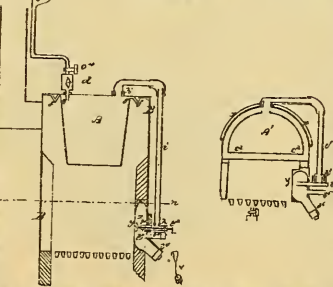
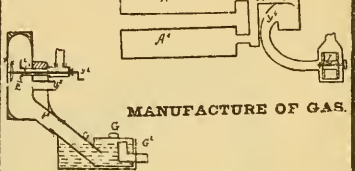
DOVETAILING-MACHINE.

JOSEPH KLECKNER. CONSTRUCTION
OF CHIMNEYS AND FLUES.

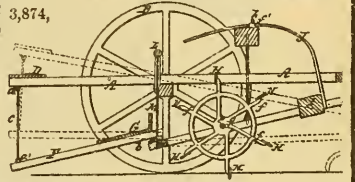
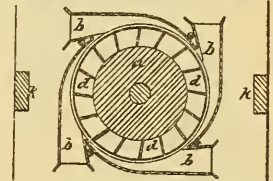
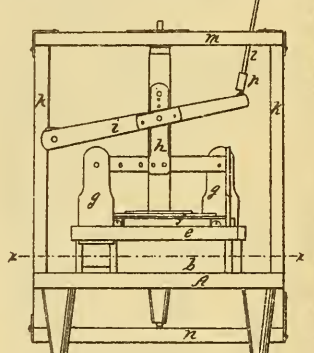
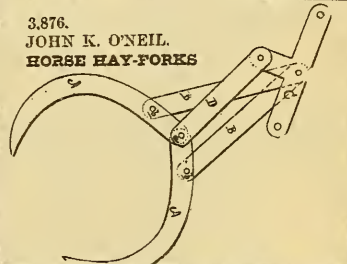
100,705.

JOSEPH KLECKNER.
100,706, CEMENT TO BE
USED IN SEWERS AND
DRAINS,
AND FOR CONSTRUCTING
FLUES AND OTHER PARTS
OF BUILDINGS.JOSEPH J. SHAEFFER. RAILWAY
CURTIS C. STEINMETZ. SWITCH

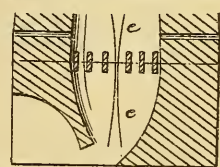
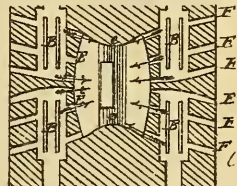
100,707.

3,869,
JACOB E. BUERK.
WATCHMEN'S
TIME-DETECTORSGUSTAVUS D. DOWS. 3,870,
CALVIN DOWS. TUMBLER-WASHER
GEORGE S. CUSHING.3,871, S. F. HESS.
PACKING-CASE FOR TOBACCO.3,872 W. J. NICHOLS AND A. GRAND
APPARATUS FOR THE MANUFACTURE
OF GAS.3,873 W. J. NICHOLS AND
A. C. RAND

MANUFACTURE OF GAS.

G. W. COLE. CORN-STALK CUTTERS.
3,874.W. FOOS. 3,875. WATER-WHEELS.
JOHN W. BOOKWALTER.3,876.
JOHN K. O'NEIL.
HORSE HAY-FORKS

3,877, C. D. PAGE. LIME-KILNS.

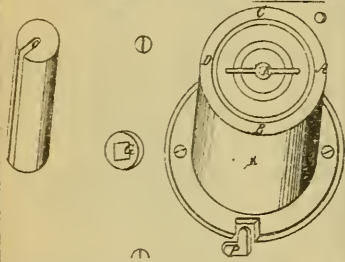
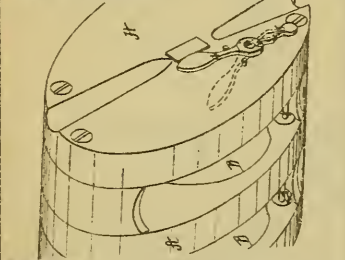
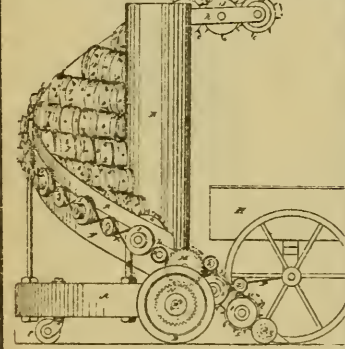


ILLUSTRATIONS OF PATENTS

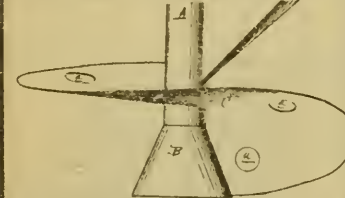
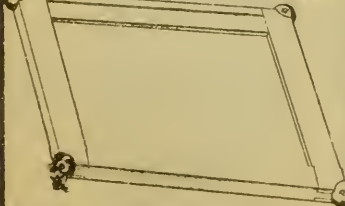
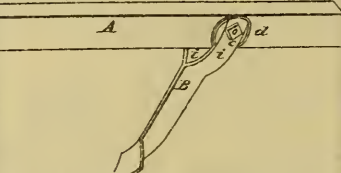
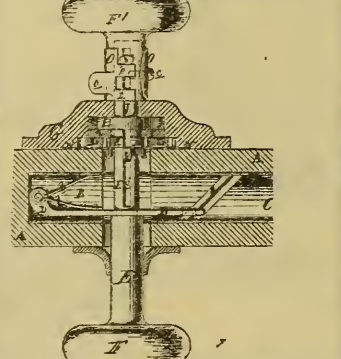
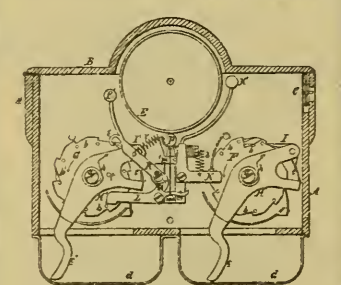
ISSUED FROM

THE UNITED STATES PATENT OFFICE

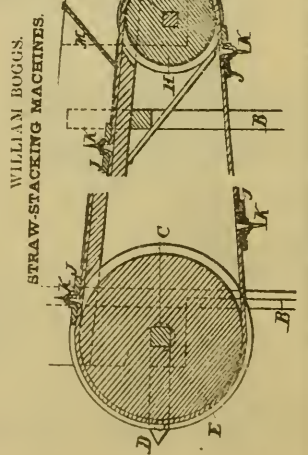
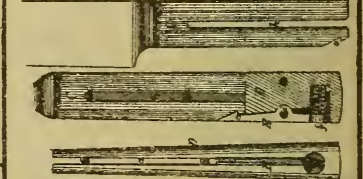
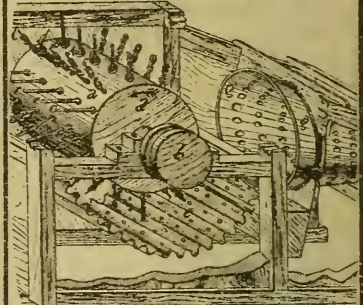
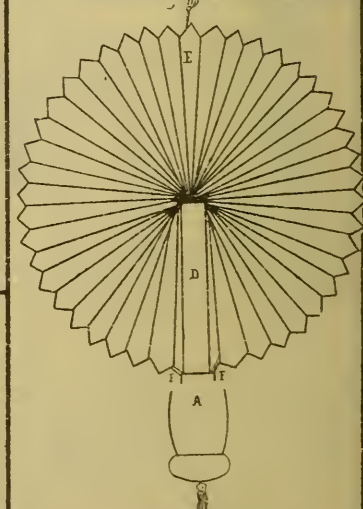
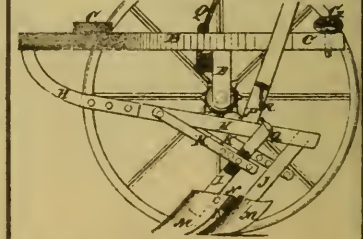
MARCH 15, 1870.

100,708. GEO. B. ALLEN.
COMBINED LOCK AND LATCH.100,709. CHS. F. ANNAN.
SHIPS' BLOCKS.100,710. JOHN BACHELDER.
HAY-LOADER.

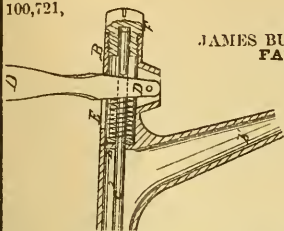
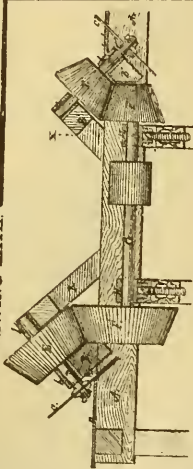
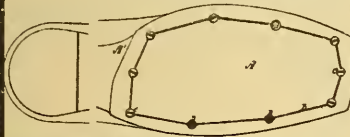
100,711. TIMOTHY BAKER. CHURNS.

100,712. WM. N. BARTHOLOMEW.
SLATE-FRAMES.100,713. SANFORD BECKWITH.
CULTIVATOR-TEETH.100,714. S. BENTLEY.
CHARLES MEE.
COMBINATION LOCK.100,715. F. BLACKBURN AND
G. W. WOODSIDE. FARE REGISTER.

100,716,

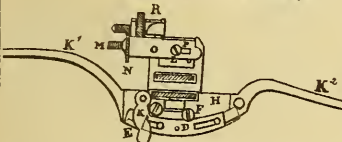
WILLIAM BOGGS.
STRAW-STACKING MACHINES.100,717. LEROY BOYNTON. DETACHABLE
W. F. SWEET.
HANDLES FOR KNIVES AND FORKS.100,718. LEVERETT BRAINARD.
RAG-WHIPPER AND DUSTER
FOR TREATING PAPER STOCK.100,719. JOSHUA BROOKS.
FAN AND PARASOL COMBINED.100,720. MARTIN BRUNER, JR.
CULTIVATORS.

100,721,

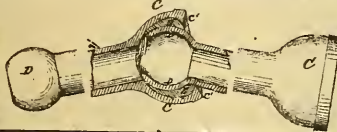
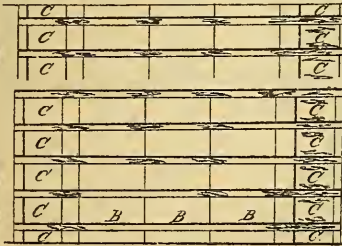
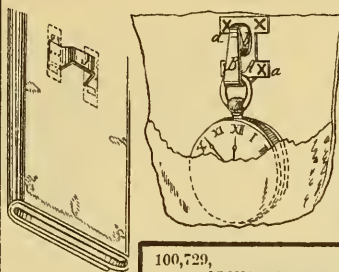
JAMES BULGER.
FAUCETS.100,722,
JAMES H. BUTLER.
MACHINE FOR
SAWING LATH.100,723, CHAS. S. CHAFFEE.
A. WAHLIG.METHOD OF SECURING
SOLES TO BOOTS AND SHOES

100,724, A. B. CLARK.

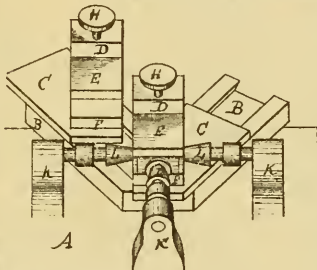
BOOT AND SHOE-SHAVE.

100,725, DECIUS W. CLARK. ENAMEL FOR
CLAY GAS-RETORTS. BURNERS. TILES.

100,726, ROBT. B. COAR. PIPE-JOINTS.

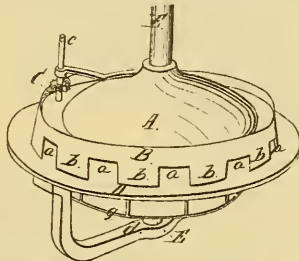
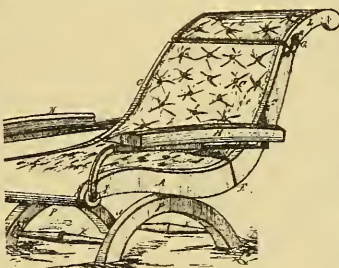
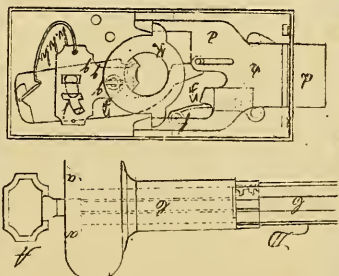
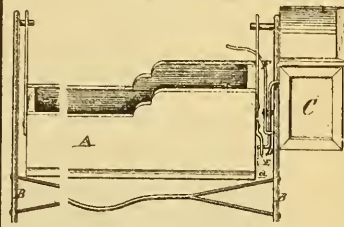
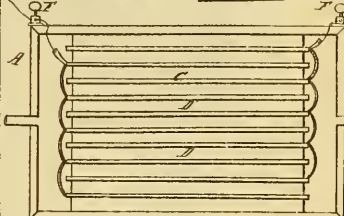
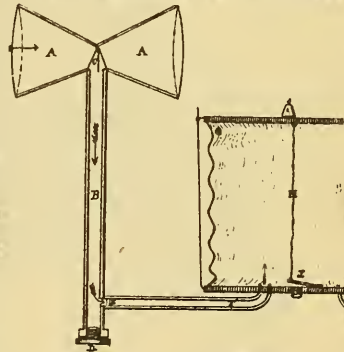
100,727, WILLIAM B. COATES.
CONCRETE AND WOODEN PAVEMENTS.100,728, HENRY R. S. COLTON.
SAFETY-ATTACHMENT FOR POCKETS

100,729,

JOHN COMMINS.
FERTILIZERS.100,730, HIRAM M. CONKLIN
COMPOUND FOR
MAKING CONCRETE PAVEMENTS.100,731, RICHARD T. CRANE.
MACHINES FOR DRILLING
AND TAPPING GAS-FITTINGS.

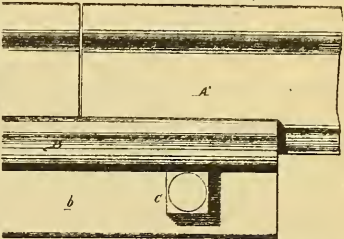
100,732, ELEAZER F. CROCKER.

TURBINE WATER-WHEELS.

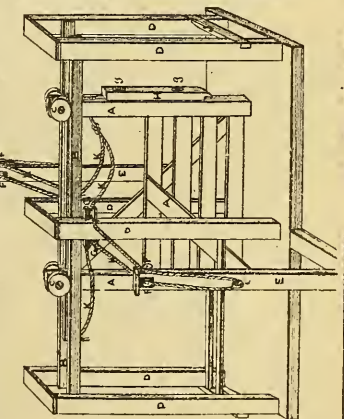
100,733, J. C. CRUMMY. FOLDING-CHAIR.
A. A. PARSONS.100,734, CHARLES L. DEAN.
COMBINED LATCH AND LOCK.100,735, S. G. DELANO.
AUTOMATIC CRADLE.100,736, CLEVELAND F. DUNDERDALE.
APPARATUS FOR
THE PRODUCTION OF OZONE100,737, CLEVELAND F. DUNDERDALE.
APPARATUS FOR FORCING AIR INTO
CARBURETERS ON RAILROAD CARS.

100,738, E. P. DWIGHT.

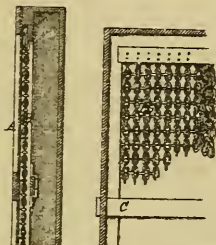
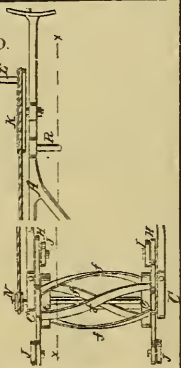
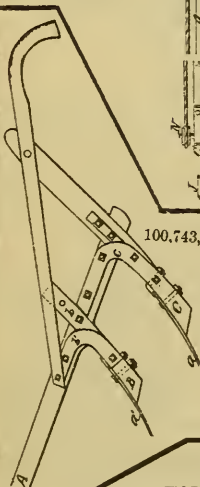
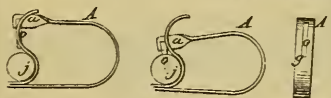
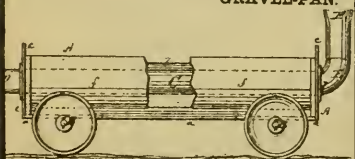
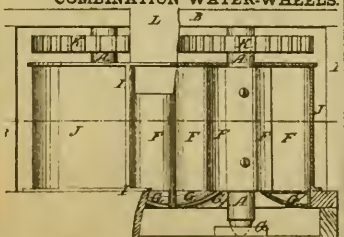
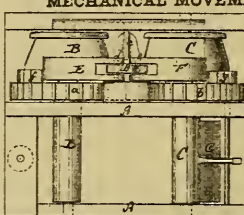
RAILWAY RAIL-JOINT.



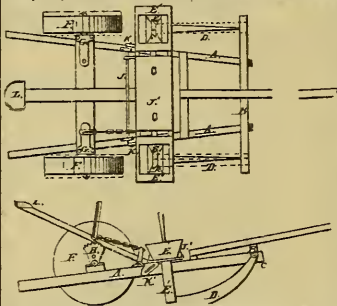
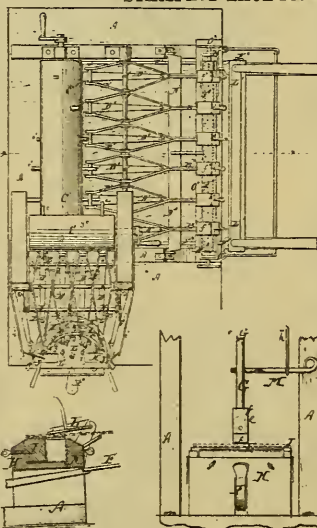
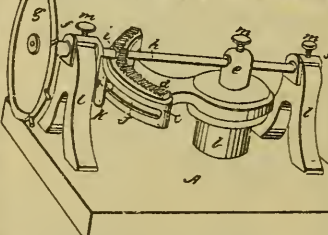
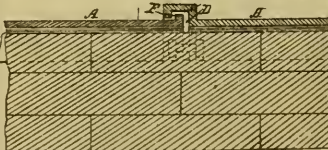
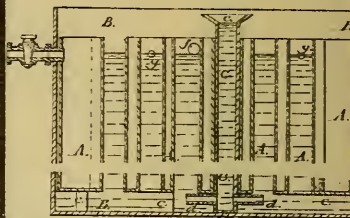
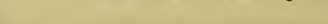
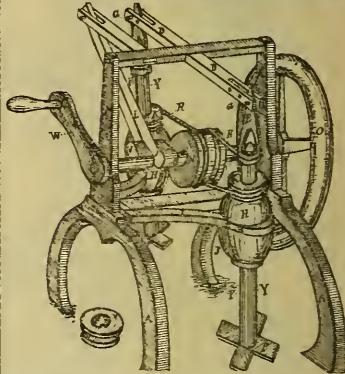
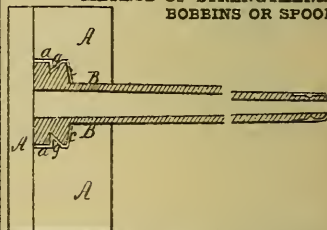
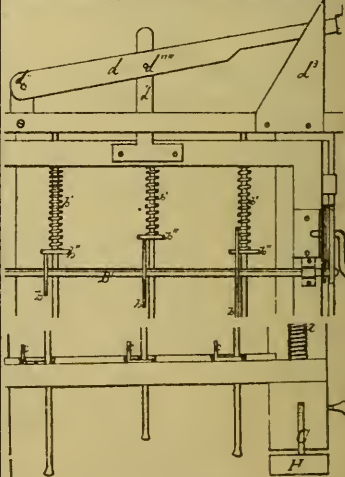
100,739, THOMAS ELLISON. GATES.



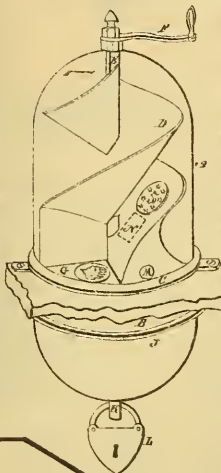
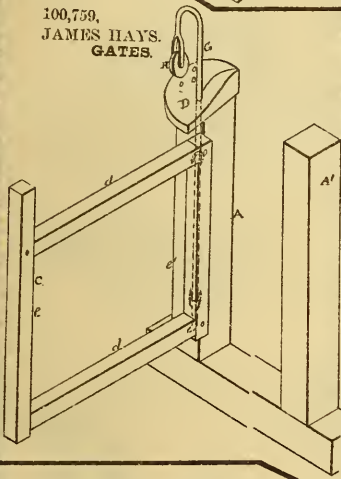
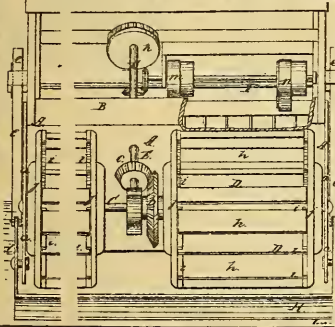
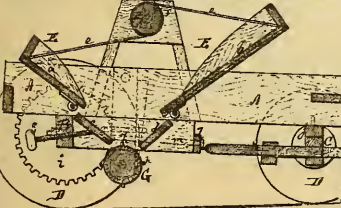
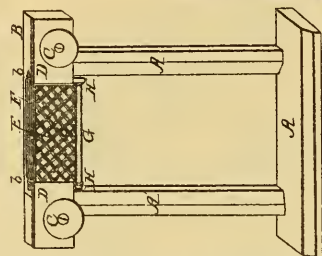
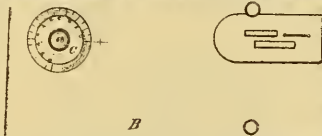
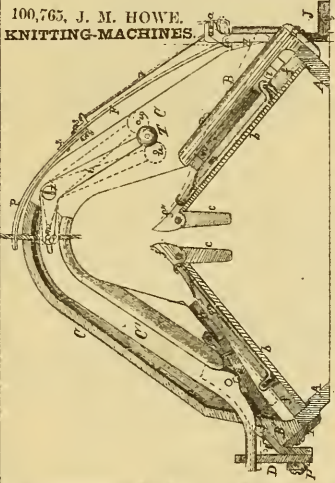
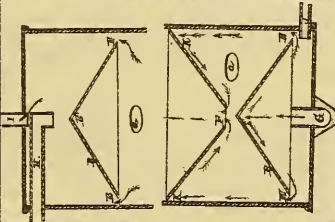
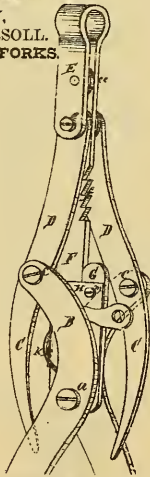
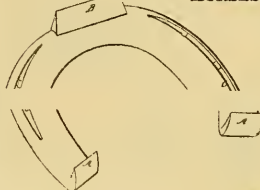
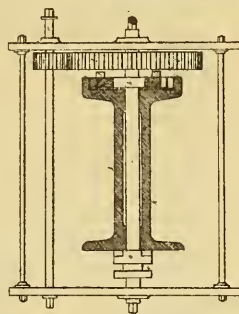
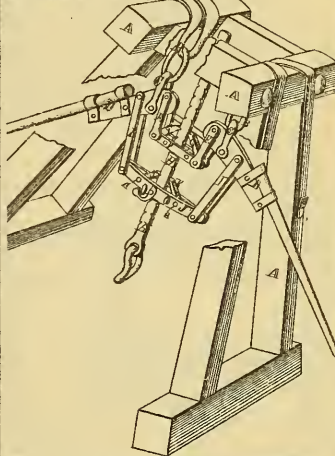
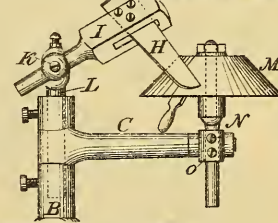
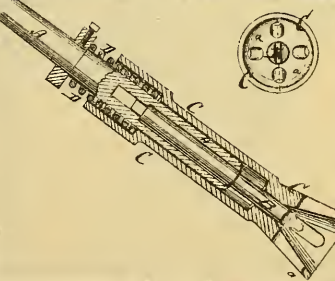
100,740, N. EVINGER. CORN-HUSKERS.

100,741, JON. M. EWING.
BURGLAR-PROOF SAFES.100,742,
JOSEPH C. FIELD.
LAWN-MOWERS.100,743, MIRANDA FORT
PLOWS.100,744,
HORACE N. FOSTER.
CIGAR PIERCER.100,745, HENRY FRANKE.
GRAVEL-PAN.100,746, JOHN FULLER.
HERBERT FULLER.
COMBINATION WATER-WHEELS.100,747, WILLIAM GARRISON.
MECHANICAL MOVEMENTS

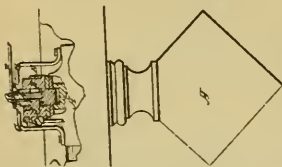
100,748, WM. GILMAN. CORN-PLANTERS.

100,749, AMBROSE GIRAUDAT.
STAMPING LACE-PAPER100,750, EBENEZER G. GREEN.
STEERING-APPARATUS.100,751, JOHN GRINDROD.
COPING FOR WALLS.100,752, THEODORE GRÜNDMANN.
APPARATUS FOR COOLING
BEER AND OTHER LIQUIDS.100,753, EDGAR R. HALL.
WM. H. TOWN.
DEVICE FOR OPERATING CHURNS100,754, ALBERT HALLOWELL.
METHOD OF STRENGTHENING
BOBBINS OR SPOOLS.100,755, WM. W. HARDING.
PAPER-MAKING MACHINERY.100,756, JACOB HART.
ROCK-DRILLING MACHINES.

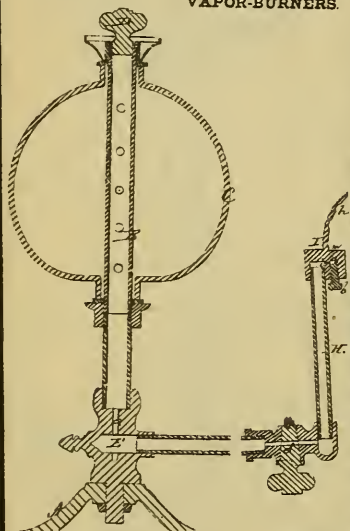
100,757, LEWIS HART. SCREW-DRIVER.

100,758, G. C. HATHORN.
FARE-BOXES FOR RAILROAD CARS.100,759,
JAMES HAYS.
GATES.100,760, THOMAS H. HAZARD.
MEDICAL COMPOUND FROM CHLORAL.100,761, AUGUST G. HEITMANN.
FLOATING-MILL POWER.100,762, DANIEL HILL.
MANURE-SPREADERS.100,763, ROBERT N. HOFFMAN.
WINDOW-CORNICE.100,764, JAMES A. HOUSE. FEEDING-
MECHANISM FOR SEWING-MACHINE.100,765, J. M. HOWE.
KNITTING-MACHINES.100,766, JOHN HUNTINGTON.
LIME-EXTRACTING HEATER.100,767,
T. D. INGERSOLL.
HORSE HAY-FORES.100,768, HIRAM INGRAHAM.
HORSESHOES.100,769, JOSEPH JEWSBURY.
HOISTING-MACHINES.100,770, W. O. JOHNSON.
STUMP-EXTRACTORS.100,771, JOHN KAVANAGH.
MOSES S. MOULTON.
SKIVING-MACHINES.100,772, DANIEL KELLY.
CENTERING-ATTACHMENT FOR LATHE.

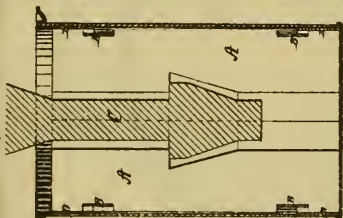
100,773, WM. H. KELLY.
APPARATUS
FOR LIGHTING GAS BY ELECTRICITY



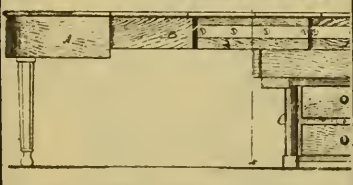
100,774, ISAAC KLING.
VAPOR-BURNERS.



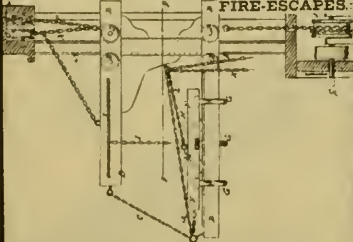
100,775, ISAAC KLING.
MACHINE FOR MAKING FRUIT-CANS.



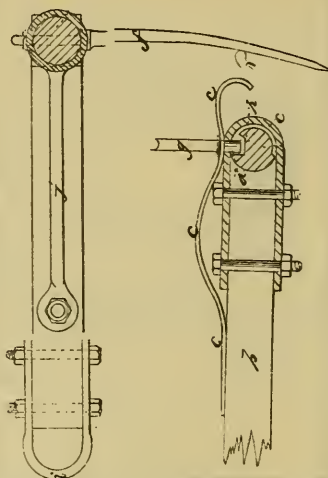
100,776, CHARLES PHILIPP LENZ.
EXTENSION TABLE



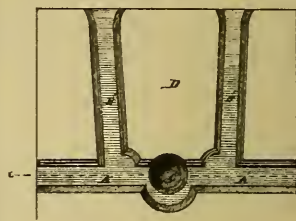
100,777, MICHEL LEWIS.
JOHN C. SWENSON.
FIRE-ESCAPES.



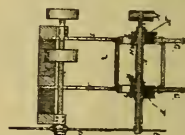
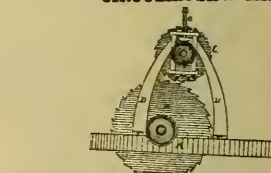
100,778, THOMAS F. LONGAKER.
MACHINE FOR CLEANING STABLES.



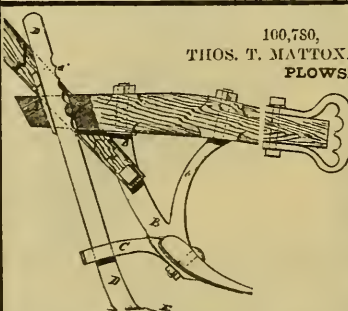
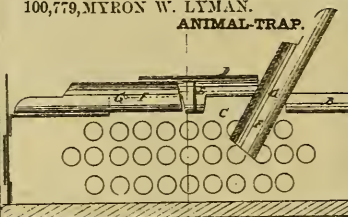
100,783, R. R. MILLER.
DIE FOR FORMING PERCH-PLATES



100,784, JNO. MILLS.
A. G. WALDO.
CIRCULAR-SAW MILL

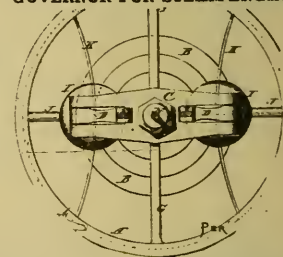


100,779, MYRON W. LYMAN.
ANIMAL-TRAP.

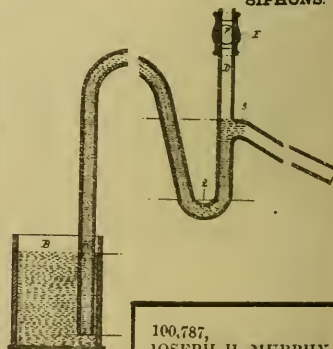


100,780,
THOS. T. MATTOX.
FLOWS.

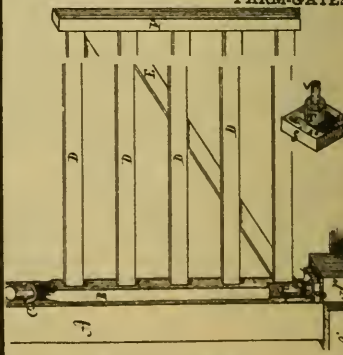
100,785, THOS. MOORE.
GOVERNOR FOR STEAM-ENGINES.



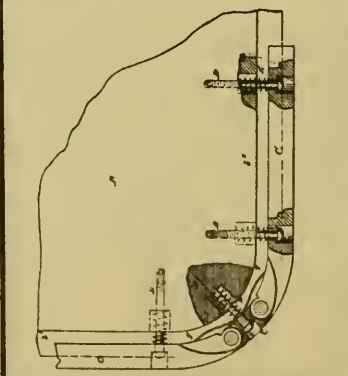
100,786, SOLOMON S. MOYER.
SIPHONS.



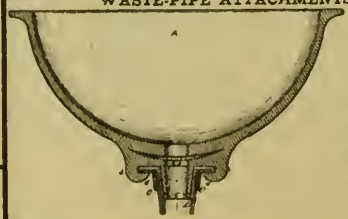
100,787,
JOSEPH H. MURPHY.
PATRICK J. MURPHY.
FARM-GATES.



100,781, WM. MCFARLAND.
BURGLAR-PROOF SAFES.

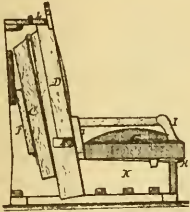


100,782, GEO. C. MILLER. BASINS WITH
JOS. H. COATES.
WASTE-PIPE ATTACHMENTS

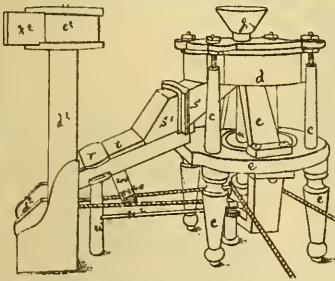


100,788, JAMES MYERS, JR. MODE OF
PREVENTING THE
STEALING OF BONDS

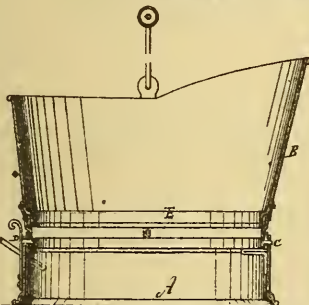
100,789, JOHN NEEDHAM. SOFA BED.



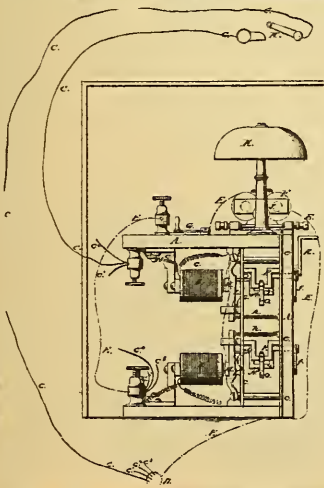
100,790, THOMAS NELSON.
BUCKWHEAT-HULLING MACHINES



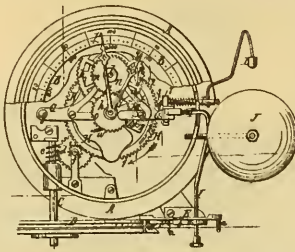
100,791, M. S. NICHOLS.
REUBEN WEAVER.
SCREEN COAL-HOD.



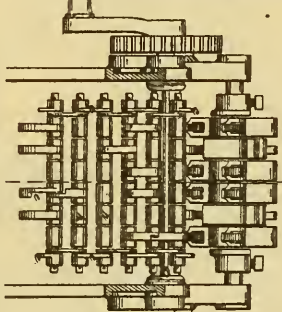
100,792, CHAS. S. NOE.
HOTEL AND BURGLAR-ALARM



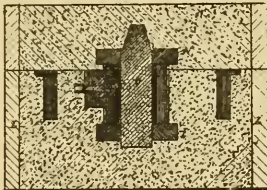
100,793, RICHARD H. NORRIS.
SPOOLING-GAUGE.



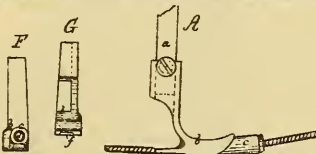
100,794, JAMES NUTTALL.
TAPPET-CHAIN FOR LOOM.



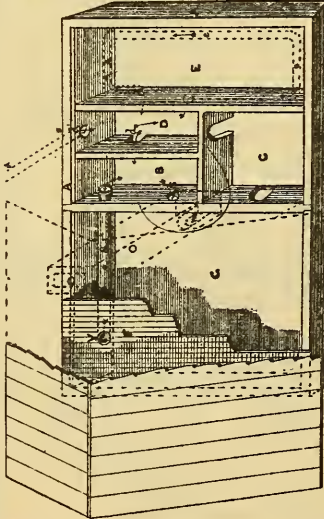
100,795, JOHN PATTERSON.
COAL-CAR AND TRUCK-WHEELS



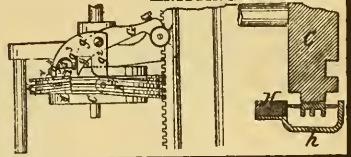
100,796, WILLIAM W. PETTEE.
PRESSER-FOOT FOR SEWING-MACHINE



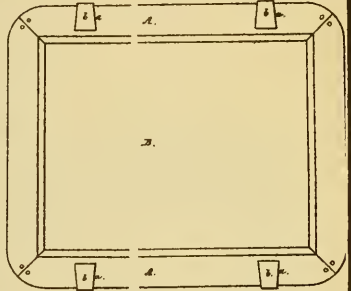
100,797, W. E. PHELPS. VENTILATOR



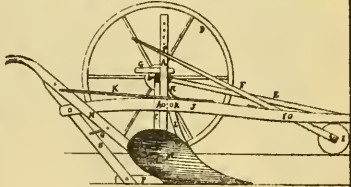
100,798, FRANK PHILIP.
KNITTING-MACHINES.



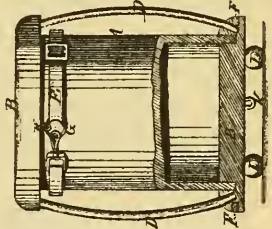
100,799, GEORGE EDWIN POOR.
WRITING-SLATES.



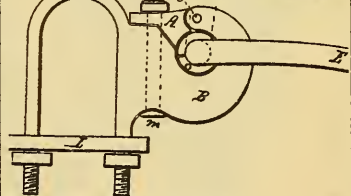
100,800, A. E. PORTER.
A. L. PORTER.
RIDING-ATTACHMENT FOR PLOW.



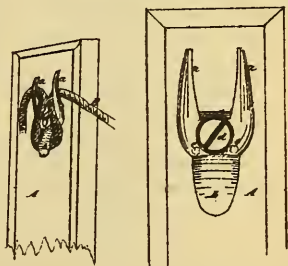
100,801, HENRY T. PRATT.
LIFE-PRESERVING STOOLS



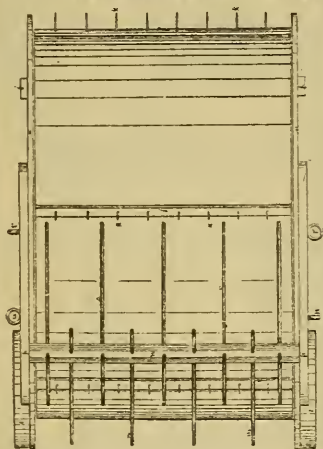
100,802, GEORGE W. PRICE.
THILL-COUPPLINGS



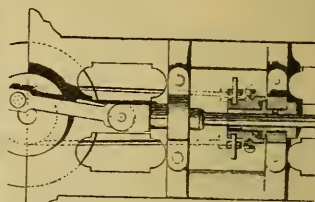
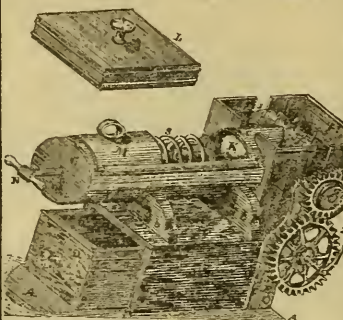
100,803, JNO. C. RANKIN.
CLOTHES-LINE HOLDER



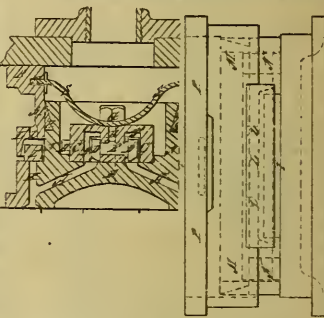
100,804, GEO. H. REISTER.
HAY-RAKERS AND LOADERS.



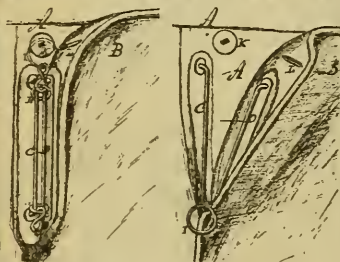
100,809, LEONHARD SCHMIDT, GRATER



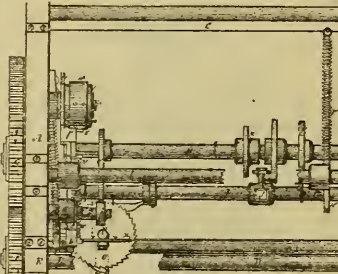
100,814, ANDREW J. STEVENS.
STEAM-ENGINE SLIDE-VALVES.



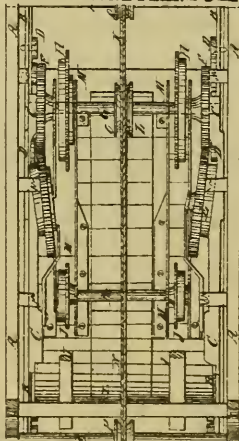
100,805, FRED. L. ROELL.
SAFETY-ATTACHMENTS FOR POCKETS.



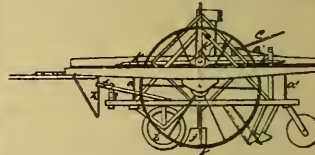
100,810, HENRY B. SCUDDER.
KNITTING-MACHINES.



100,811, THOS. B. SIMONTON.
INCLINE-PLANE ELEVATOR.



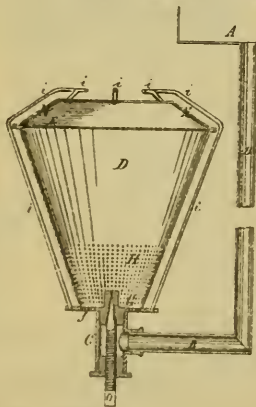
100,815, WILLIAM STIRK.
COMBINED CORN-MARKER,
PLANTER, AND CULTIVATOR



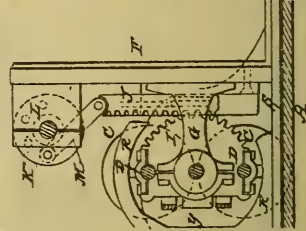
100,806, JOHN ROOT. PAPER BOX.



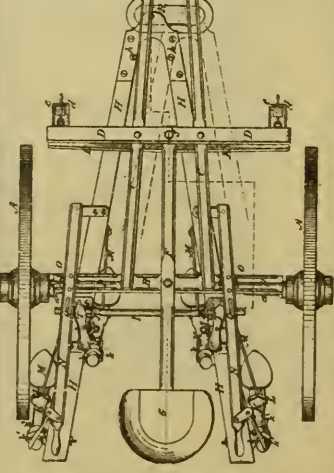
100,807, HERMAN S. SARONI.
FOR COOKING OR HEATING.



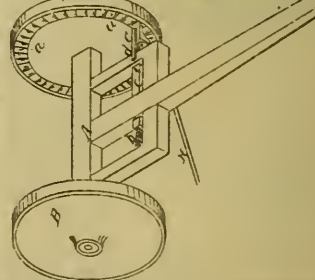
100,816, JAMES SWAN. MACHINE FOR
BENDING THE LIPS OF AUGER-BITS.



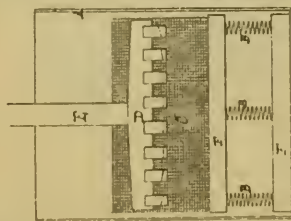
100,812, JAMES B. SKINNER.
CULTIVATORS



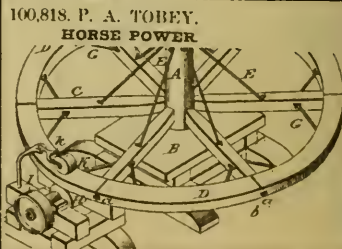
100,817, PRESTON A. TOBEY.
HARVESTERS.



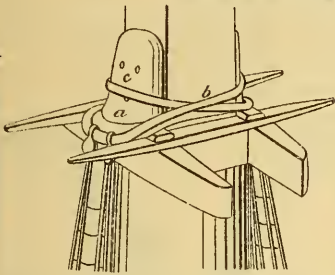
100,808, E. B. SCATTERGOOD.
WASHING-MACHINE.



100,813, JAMES SKIP.
MORTISING MACHINE.



100,819, HENRY TOWNSEND.
CHEEK-PIECES AND SHROUD-YOKES
FOR SHIPS' RIGGING



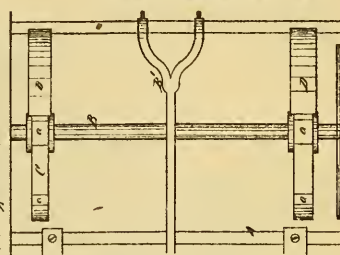
100,826, ALBERT S. WELLS.
LADLES FOR POURING METALS



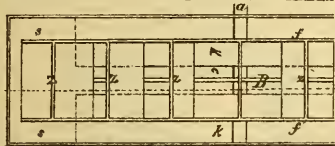
100,827, GEO. WHITEBECK, HORSE-POKES.



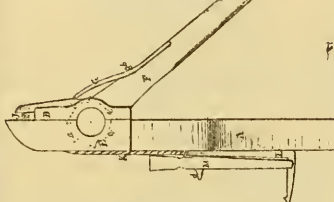
100,834, JOHN R. ADAMS.
TRACK-LAYING MACHINE.



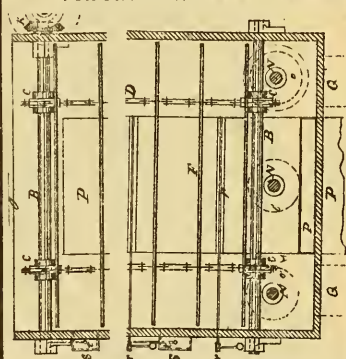
100,820, BENJAMIN W. TUCKER.
PADDLE-WHEELS.



100,828, F. C. WHITE.
LIFTING-JACKS



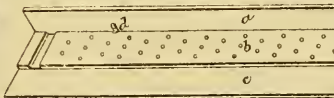
100,835 CHARLES ALDEN. APPARATUS
FOR DRYING AND EVAPORATING.



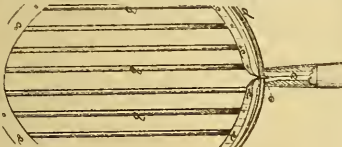
100,821, H. P. TUTTLE.
HAND INDICATOR FOR
SHOWING THE COURSE OF VESSELS



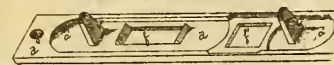
100,829, JOHN H. WHITNEY.
SLUICE-BOXES FOR GOLD-MINING.



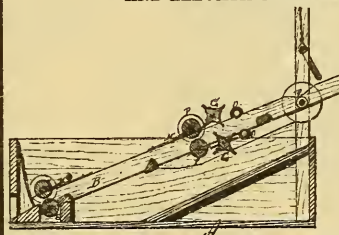
100,822, JOHN F. ENGLISH.
VEGETABLE-SCOOP.



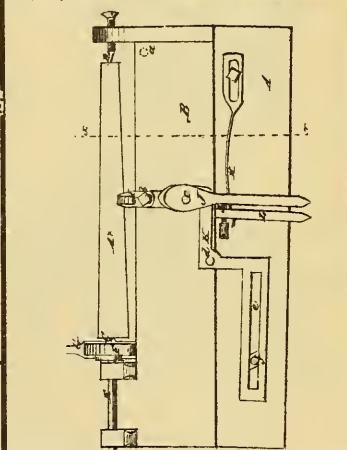
100,830, JOSEPH WHITTINGHAM.
REVERSIBLE KNOB-LATCHES.



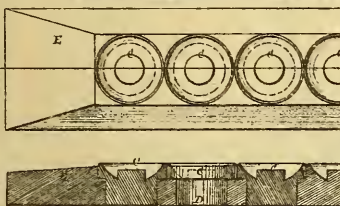
100,831, STANLEY E. WORRELL.
APPARATUS FOR WASHING
AND ELEVATING LUMBER



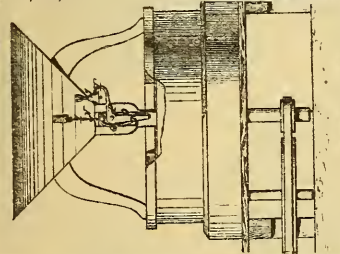
100,836, GEO. F. ALMY, SPOKE-LATHES.



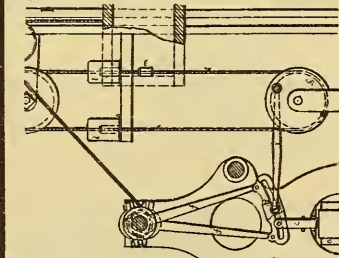
100,823, SAMUEL VANSTONE.
DIE FOR MAKING CLINCH-RINGS



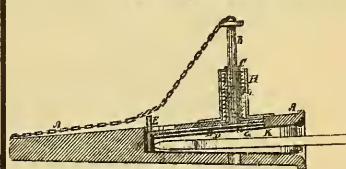
100,824, E. H. VINING GRINDING-MILLS.



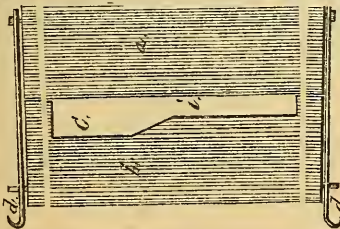
100,832, MARTIN L. WYMAN, ELEVATOR.



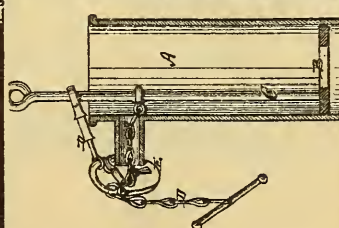
100,837, SAM'L. J. ANDERSON.
RAILWAY-CAR COUPLING.



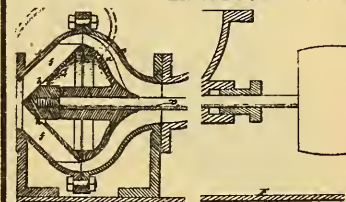
100,825, W. M. WATSON.
DIE OR FORMER FOR MAKING
DOUBLE-SHINNED MOLD-BOARD BLANKS
FOR PLOWS

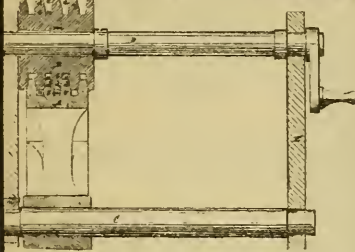
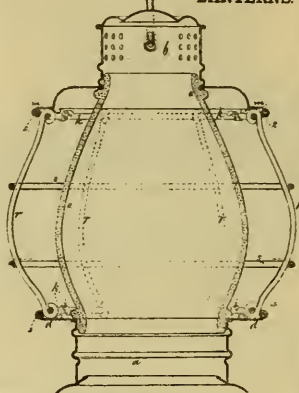
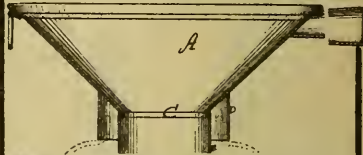
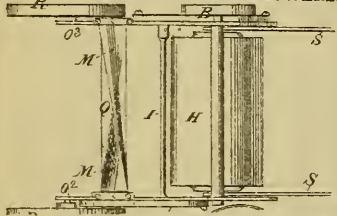
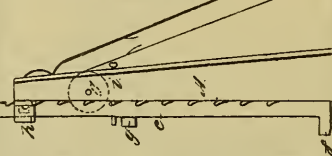
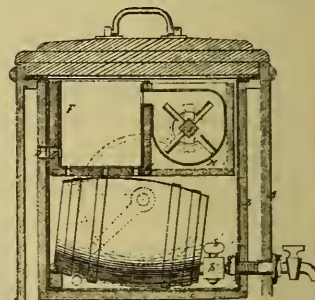
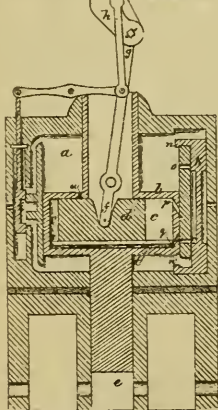
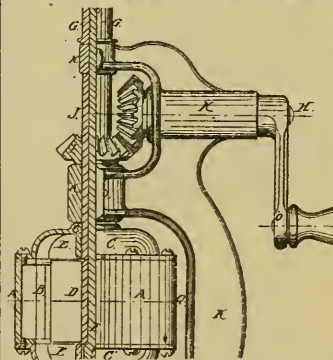
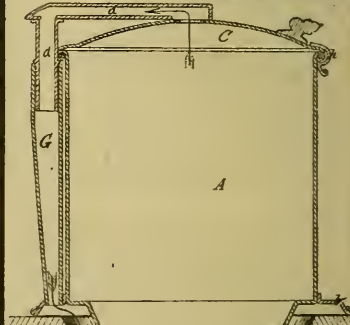
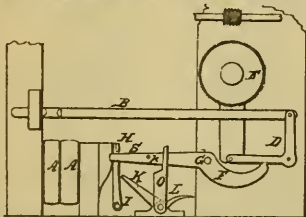
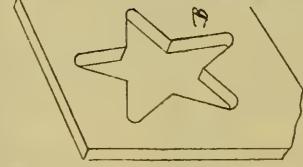
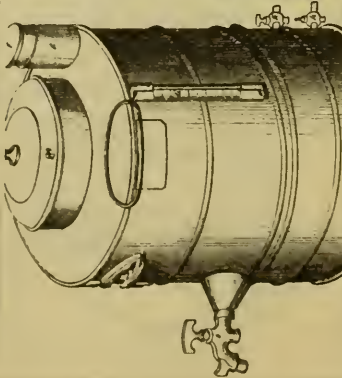
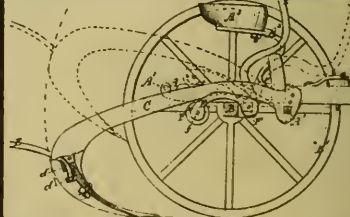
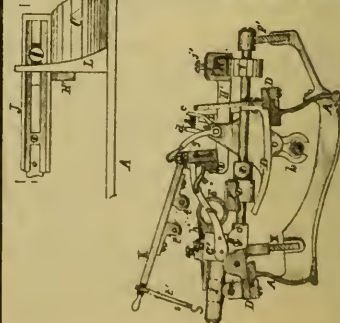


100,833, A. G. ZIESING.
LOCKS FOR SHIPS' PUMPS

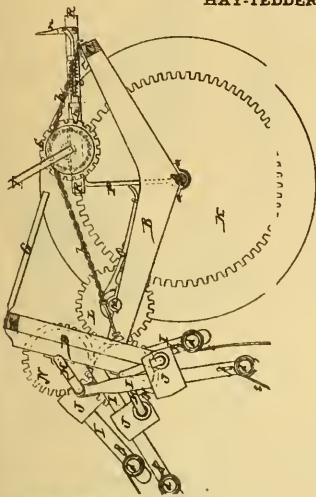


100,838, WM. D. ANDREWS.
CENTRIFUGAL PUMPS.

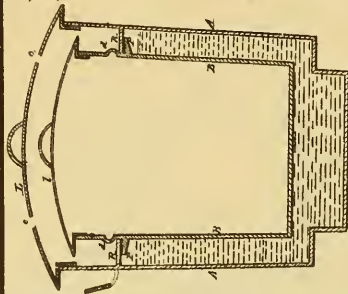


100,839, WM. D. ANDREWS.
FRICTION-WHEELS FOR GEARING.100,843, WILLIAM J. BERRY.
LANTERNS.100,850, GEORGE E. BRINKERHOFF
CIGAR-SHIELD.100,851, N. L. BRUNDAOE.
B. DOWNING.
FUNNEL CAN-FILLERS.100,840, JOSEPH ARBEITER.
LAWN-MOWERS.100,846, L. J. BLADES.
JNO. MAHONEY.
LIFTING-JACK.100,852, E. C. BUNDY.
PORTABLE BEER-COOLER.100,841, JOHN S. BARDEN.
STEAM-ENGINES.100,847, HORACE BOARDMAN.
STEAM-ENGINE GOVERNORS.100,853, FERDINAND M. CARNES.
CULINARY BOILER.100,842, JOSEPH BARON.
BELT-SHIPPING
MECHANISM FOR SPINNING-JACKS.100,848, MYRON T. BOULT.
CARVING WOOD100,843, A. BELT.
HEDGE FENCE.100,844, WILLIAM BERREY.
DETERGENT COMPOUND.100,849, LOUIS BRAUER.
APPARATUS FOR MAKING
EXTRACTS AND DECOCTIONS FROM
COFFEE, TEA, AND OTHER
SUBSTANCES.100,854, HENRY C. CARR.
POTATO-DIGGER.100,855, J. CHASE.
WOOD-TURNING LATHE.

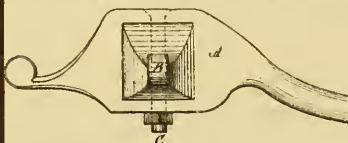
100,856, THOMAS J. CLARK.
GEORGE M. CLARK.
HAY-TEDDERS.



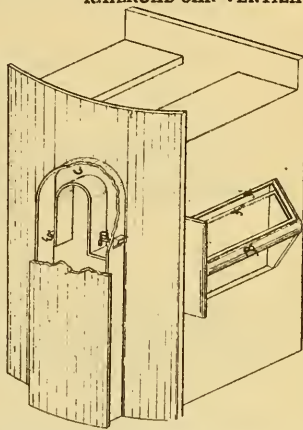
100,863, C. E. CORBETT. CULINARY VESSEL.



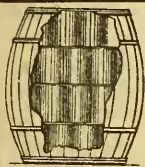
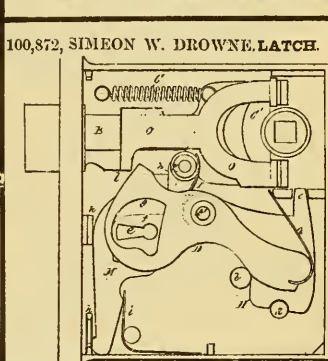
100,864, FREDRICK A. COWLES.
BODY-LOOP FOR CARRIAGES.



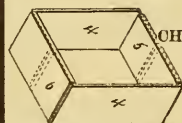
100,870, SAMUEL DARLING.
RAILROAD-CAR VENTILATOR.



100,871, JUAN YSIDRO DIAZ.
MANUFACTURE OF FERTILIZERS.

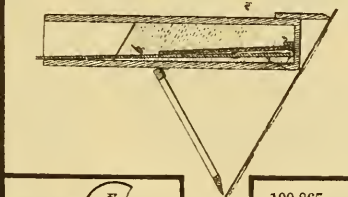


100,857,
W. J. CLARK.
EGG-CARRIERS.



100,865,
CHAUNCEY O. CROSBY.
PAPER BOX.

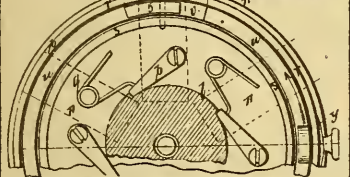
100,866, DANIEL H. CROSS.
PHOTOGRAPHIC-PLATE DIPPER.



100,858, WEBSTER M. CLAYTON.
STAIR-RODS.



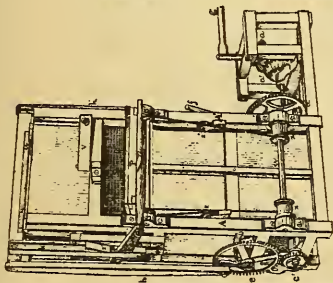
100,859, D. N. B. COFFIN, JR. CAPSTANS.



100,860, CHARLES COLE.
RAILWAY-CAR AXLES.



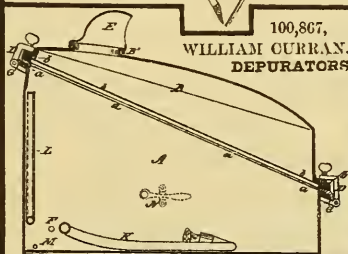
100,861, R. H. COLE.
G. F. COLE.
HAY AND COTTON-PRESSES.



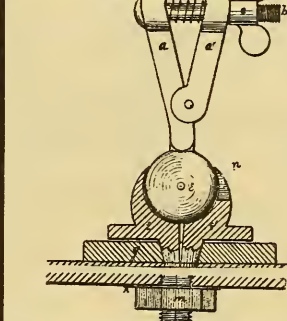
100,862, EDWARD L. COOKE.
ORANGE-KNIFE.



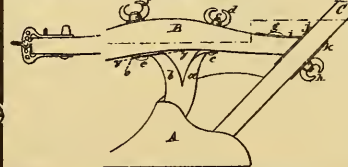
100,867,
WILLIAM CURRAN.
DEPURATORS.



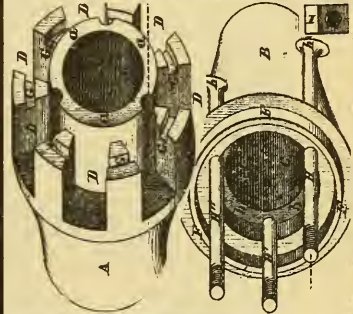
100,868,
ROYAL J. CUSHING.
VISE.



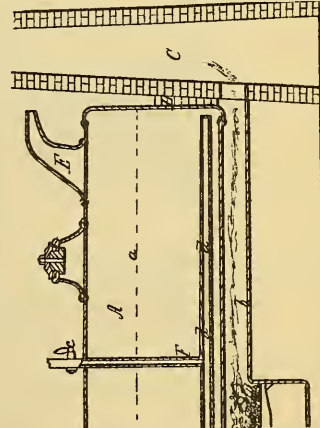
100,869, M. K. DAHL. FLOWS.



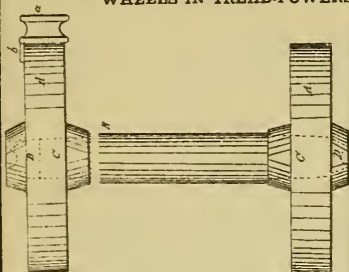
100,873, JACOB DUMP.
CARRIAGE-WHEEL HUBS.



100,874, J. B. EDWARDS.
STILLS FOR DISTILLING
HYDROCARBONS.

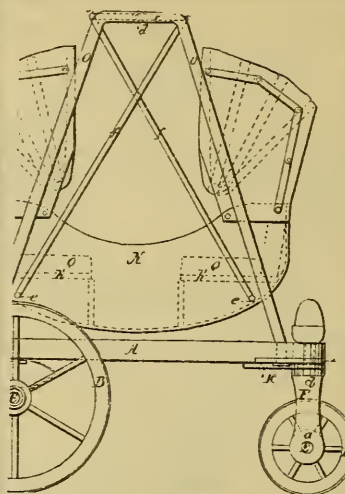


100,875 STEPHEN D. ELY.
MODE OF LUBRICATING THE
WHEELS IN TREAD-POWERS

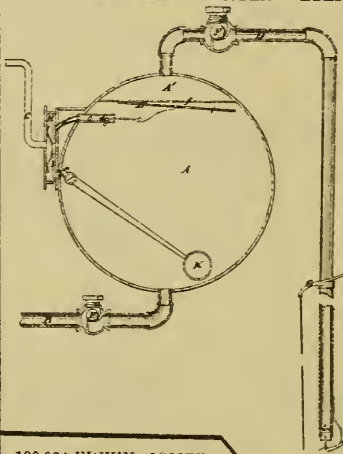


100,876, ALONZO FARRAR.
PROCESS OF TREATING ACID
RESIDUUM FROM OIL-REFINERIES

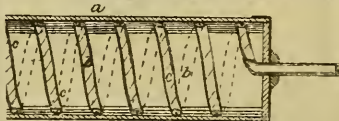
100,877, ALONZO FARRAR.
COMPOSITION, TO BE USED FOR
PRINTING OR PAINTING ON SURFACES



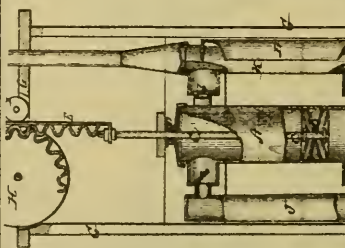
100,883, ELISHA H. GOLDMAN.
AUTOMATIC BOILER-FEEDER



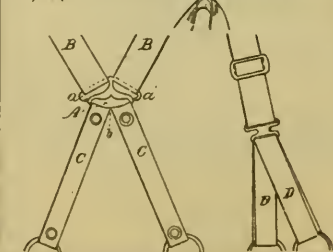
100,884, EDWIN GOMEZ.
TORPEDOES AND CARTRIDGES



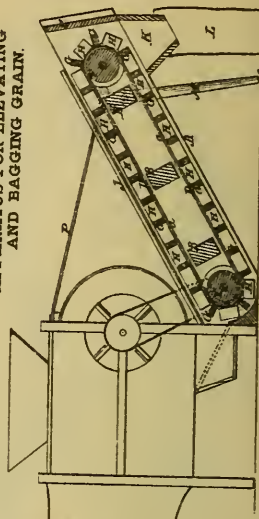
100,885, DANIEL J. GORTON. PUMPS.



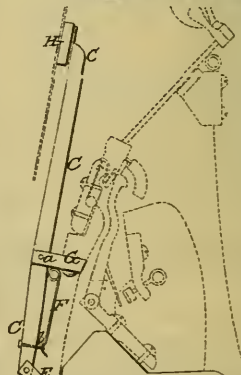
100,886, B. J. GREELY. SUSPENDERS.



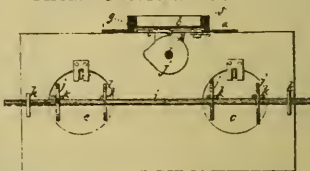
100,887, JOHN S. HARBROOK.
APPARATUS FOR ELEVATING
AND BAGGING GRAIN.



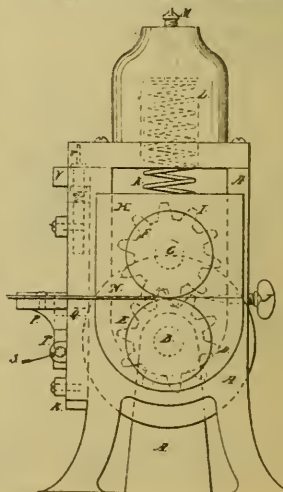
100,888, A. H. HASTINGS.
DAMPER FOR PIANO-FORTES.



100,889, CORNELIUS E. HAYNES.
PACKING APPARATUS.



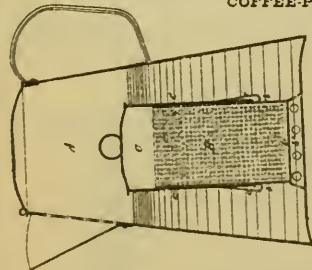
100,890, CHARLES H. HELMS.
LEATHER-SCARFING MACHINES.



100,879,
W. B. FIELD.
BURROUGHS BEACH
NEEDLE-CASES.



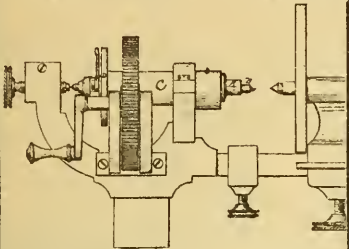
100,880, JAMES F. FITCH.
B. G. DEVOE.
R. W. B. McLELLAN.
COFFEE-POT



100,881, CHRISTIAN FLAMMER.
PROCESS OF MAKING GLASS
SIGNS, SHOW-CARDS, &c.

100,882, WILLIAM H. FLANIGAN.
COMBINED CARRIAGE, CRADLE,
SWING, AND BABY-WALKER

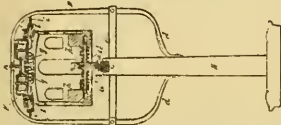
100,891, H. H. MESKETT. LATHES FOR SETTING JEWELS IN TIME-PIECES.



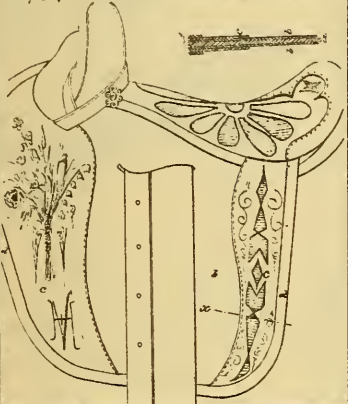
100,892, GEO. S. HEWITT. MANUFACTURE OF BRICKS.



100,893 BENJ. L. HOOD, HENRY O. HOOD, EZRA W. CLARK, JR. ELEVATED RAILWAY



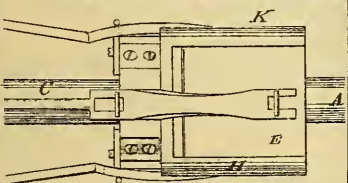
100,894, GEORGE HORTER. SADDLES.



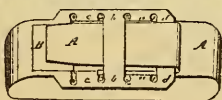
100,895, WILSON J. HUBBARD JOINTS FOR FISHING-RODS



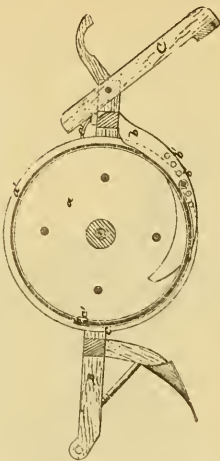
100,896, F. R. HUNT. PIPE-COUPLING FOR HEATING AND VENTILATING RAILROAD CARS.



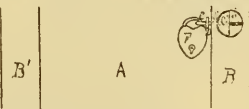
100,897, F. R. HUNT. PACKAGE BAND AND FASTENER.



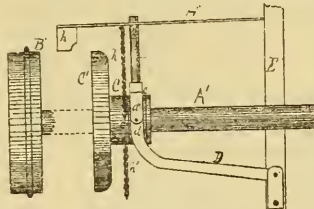
100,898, L. FRED INVERSON, JR. SEED AND GUANO-DRILL.



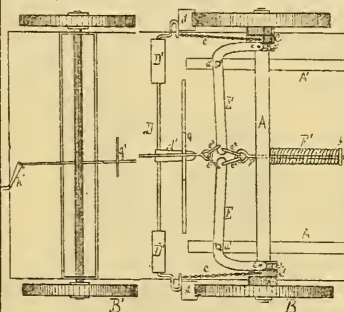
100,899, EDWD. P. JONES. HASP AND STAPLE FASTENING.



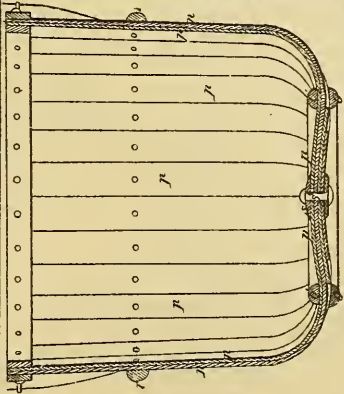
100,900, EDWD. P. JONES. RAILWAY-CAR BRAKE.



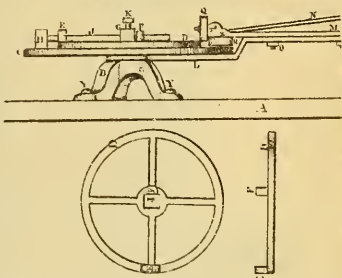
100,901, EDWD. P. JONES. WAGON-BRAKE



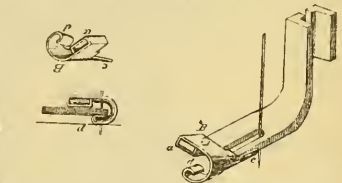
100,902, HORACE C. JONES. MANUFACTURE OF STAVE BASKETS



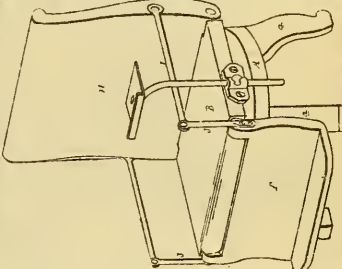
100,903 WM. J. JORDAN. MACHINE FOR BENDING FIFTH WHEELS.



100,904, AMASA C. KASSON. BINDING ATTACHMENT FOR SEWING-MACHINE



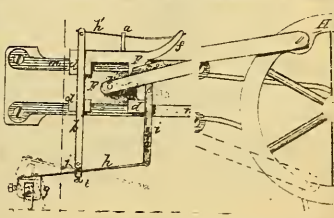
100,905, GEORGE KNELL. REVOLVING. ROCKING AND RECLINING-CHAIR.



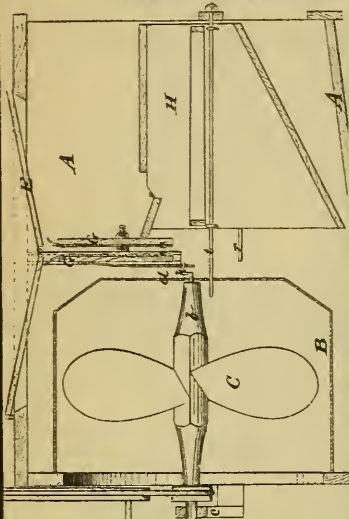
100,906, CAMILLE KRECI. LIFE-PRESERVERS.



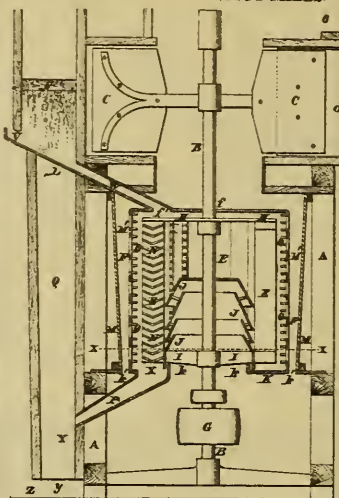
100,907, HENRY LAMPERT. APPARATUS FOR WORKING HIDES.



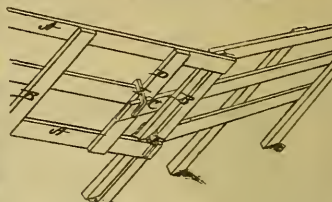
100,908, HORACE LITTLEFIELD.
FANNING AND SMUT-MILK.



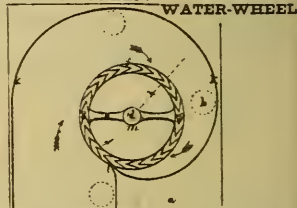
100,913, DANIEL W. MARMON.
SMUT-MILLS



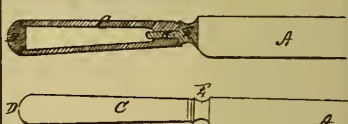
100,919, DAVID MITCHEL. FENCE.



100,920, ALEXANDER F. MURRAY.
HENRY GREEN.



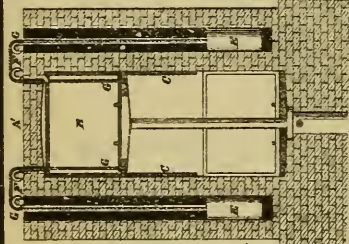
100,921, J. H. NICHOLS.
WM. BOWER.
HANDLES FOR TABLE CUTLERY



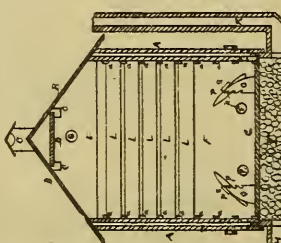
100,909, T. A. MACAULAY.
NEEDLE-ADJUSTING BLOCK FOR
SEWING-MACHINES



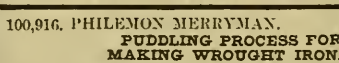
100,910, NEIL MACNEALE. DRAW-BRIDGE



100.914. JAMES B. MAY. FRUIT-DRIER



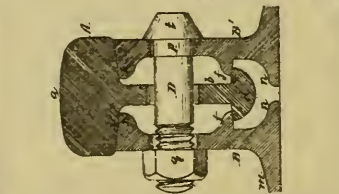
100.915. R. S. MERRILL.
PRODUCTION OF LIGHT FROM HEAVY
HYDROCARBONS.



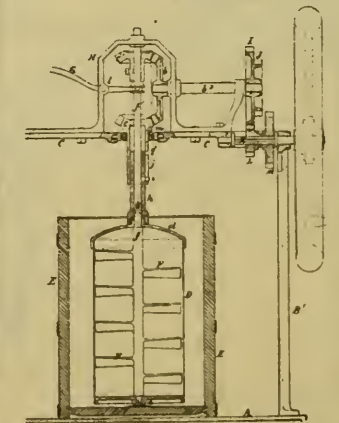
100,916. PHILEMON MERRYMAN.
PUDDLING PROCESS FOR
MAKING WROUGHT IRON.



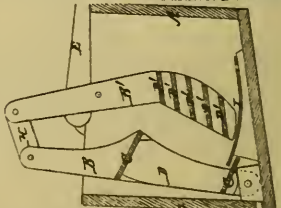
100,917. JAMES MILLHOLLAND.
RAILWAY RAILS



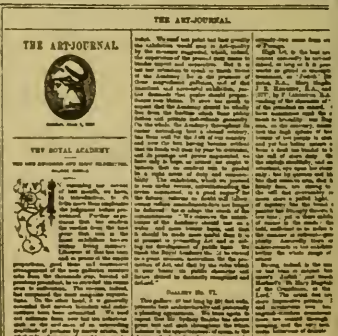
100,918, THOMAS MILLS
GEO. M. MILLS.
ICE-CREAM FREEZER.



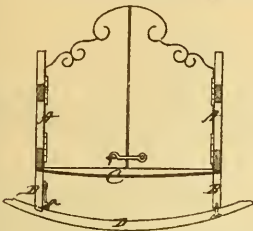
100,923, GEO. W. PUTNAM.
WASHING-MACHINE



100,924, ISAAC REHN.
MODE OF PRODUCING
PHOTO-LITHOGRAPHIC TRANSFERS.



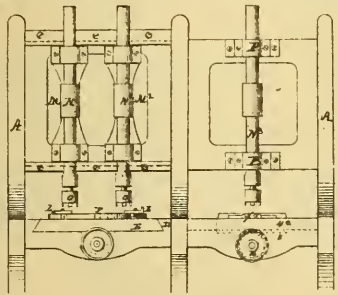
100,925, D. M. REYNOLDS.
FOLDING CRIB AND CRADLE.



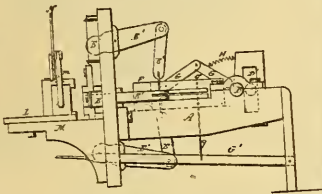
100,926, F. W. RHINELANDER.
SPIRAL SPRINGS FOR RAILWAY CARS.



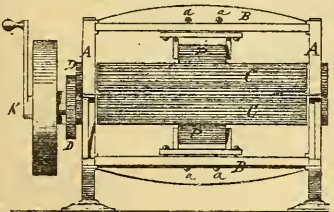
100,927, CHARLES F. RITCHIE. MACHINE
FOR PREPARING WOOD FOR INLAYING.



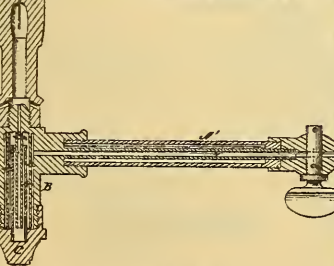
100,928, JOHN ROOT.
MACHINE FOR HEADING BOLTS.



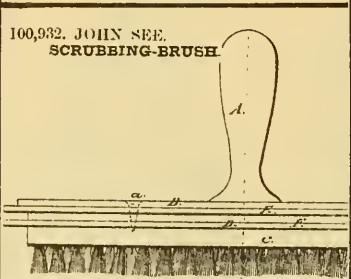
100,929, FRANKLIN ROYS. MACHINE FOR
CORRUGATING SHEET METAL.



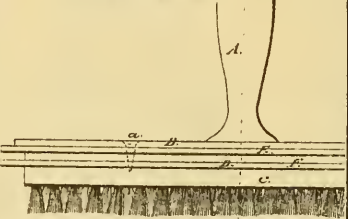
100,930, HENRY SCHMINKE.
VAPOR-BURNERS.



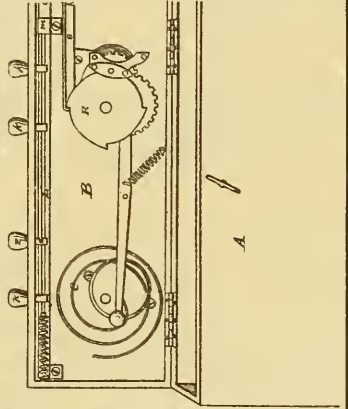
100,931, THOMAS C. SCRUTON.
CATARRH REMEDY OR SNUFF.



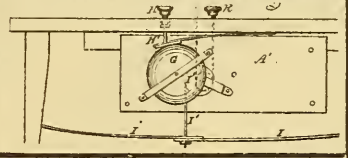
100,932, JOHN SEE.
SCRUBBING-BRUSH.



100,933, REUBEN SHALER.
BURGLAR-ALARMS.



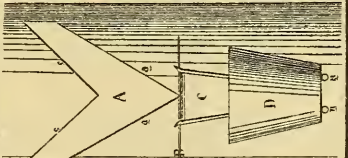
100,934, E. SHIVER. MECHANISM
FOR OPERATING SEWING-MACHINES.



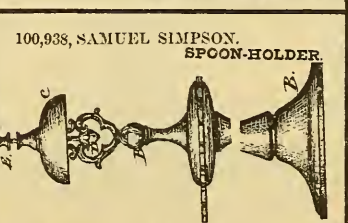
100,935, E. SHIVER.
MECHANISM FOR DRIVING SEWING
MACHINES.



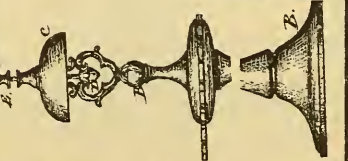
100,936, J. C. SHULER. EXTRACTING
TURPENTINE FROM PINE-TREES.



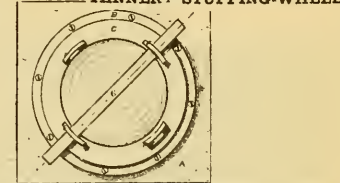
100,937, LORENZO SIBERT.
METALLIC ALLOY TO IMITATE
THE PRECIOUS METALS.



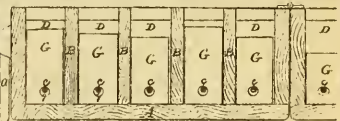
100,938, SAMUEL SIMPSON.
SPOON-HOLDER.



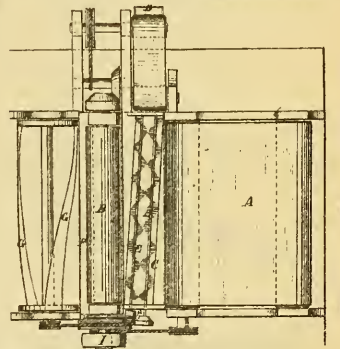
100,939, HENRY SMITH, JR.
MAN-HOLE PLATE FOR
TANNERY STUFFING-WHEEL.



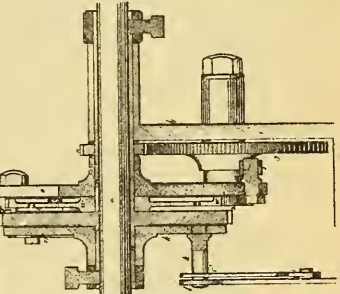
100,940, JOSEPH T. SMITH.
RAILROAD CONDUCTORS' TICKET-CASES.



100,941, THOS. S. SMITH.
CORN-HUSKERS.



100,942, H. D. SNOW.
WATER-WHEEL REGULATOR.



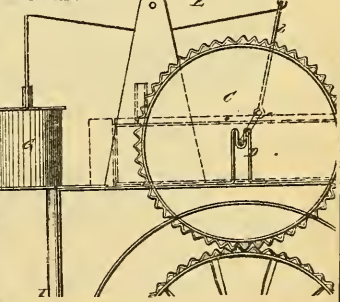
100,943, S. M. SNYDER. RAILWAY GATE.



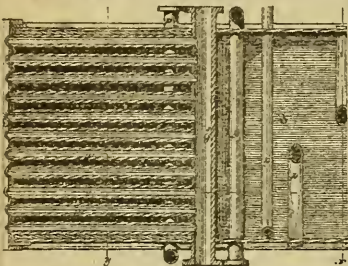
100,944, S. SOREL. MANUFACTURE OF
CEMENT FOR ARTIFICIAL STONE.

100,945, S. SOREL. MANUFACTURE OF
ARTIFICIAL STONE.

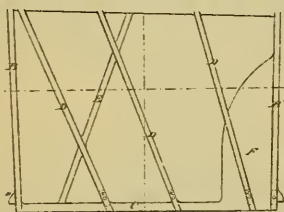
100,946, HATHERLY SPEAR. COMBINED
CURRENT-WHEELS AND CONDENSING
-ENGINES.



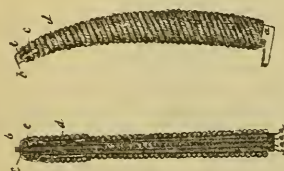
100,947, ELIHU SPENCER. HEATING-
ATTACHMENT FOR STEAM-BOILERS



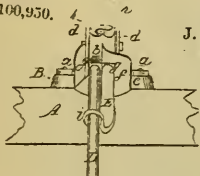
100,548, GEORGE STECK.
IRON FRAMES FOR UPRIGHT PIANOS



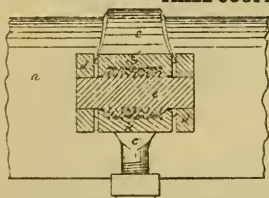
100,949, LOVITT STIMSON. WRAPPING
SCYTHES FOR TRANSPORTATION



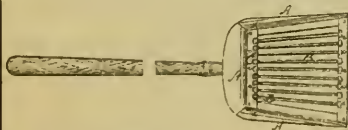
100,950, J. C. STODDARD.
HORSE-RAKES



100,951, CHAUNCEY THOMAS.
THRILL-COUPLING



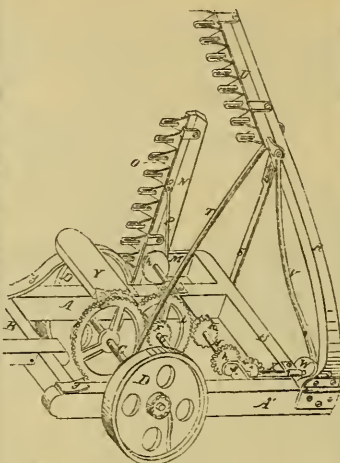
100,952, ROBERT J. S. THOMPSON.
ASH-SHOVEL



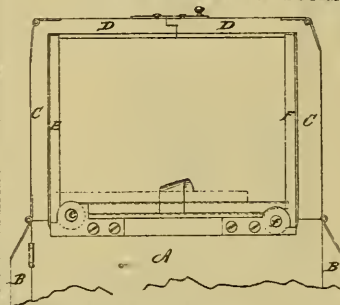
100,953, JOSEPH TREAT.
MANUFACTURE OF ROSIN-OIL

100,954, A. VAN CAMP.
M. M. HODGMAN.
COMPOSITION FOR CONCRETE
PAVEMENTS, WALKS, &c

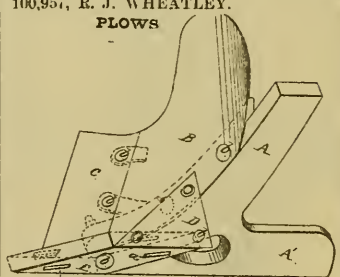
100,955,
GEO. WADDINGTON. COMBINED
HEDGE-TRIMMER AND MOWER



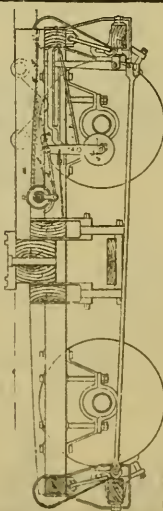
100,956, EDWARD WELLS.
LANDAU CARRIAGE-DOORS



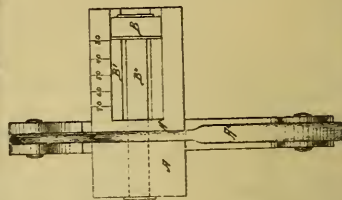
100,957, R. J. WHEATLEY.
PLOWs



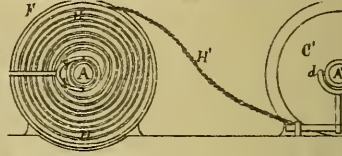
100,958,
MARMADUKE WILKIN.
JOHN CLARK.
AUTOMATIC CAR-BRAKES.



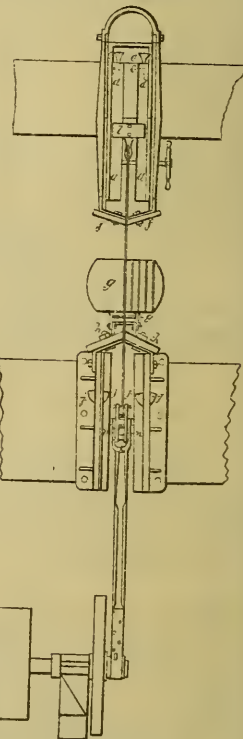
100,959, W. N. C. WILLSON.
GAUGE FOR TOBACCO-CUTTERS



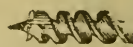
100,960, EDWD. P. JONES.
CAR BRAKE AND STARTER



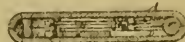
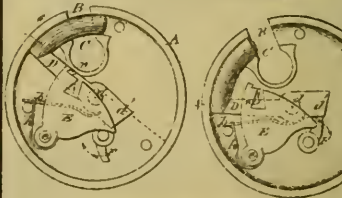
3,878, ASHBELL P. BARLOW.
SAW-MILLS



3,879,
IRA T. PAYNE.
AUGERS



3,880, FREDERICK EGGE
PADLOCKS



ILLUSTRATIONS OF PATENTS

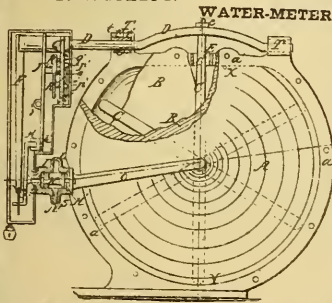
ISSUED FROM

THE UNITED STATES PATENT OFFICE

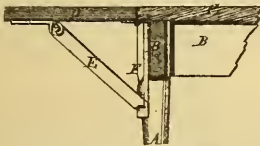
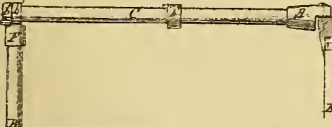
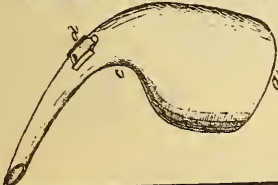
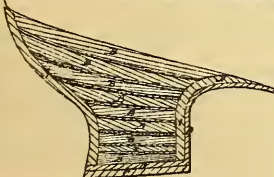
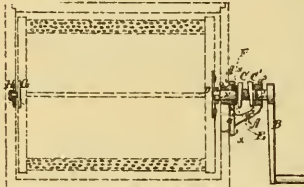
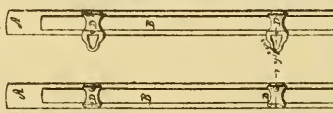
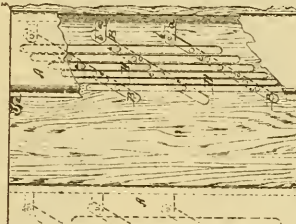
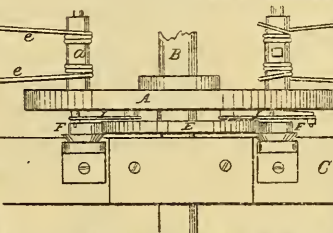
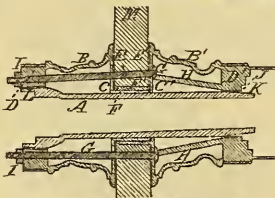
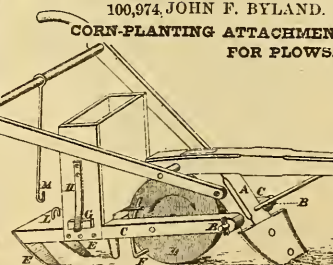
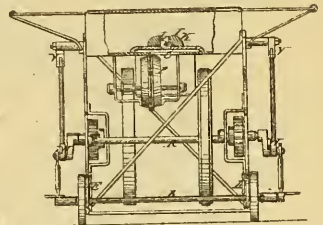
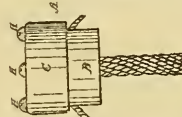
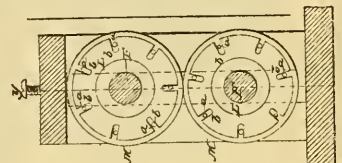
MARCH 22, 1870.

100,961. I. ADAMS, JR. ELECTRO
DEPOSITION OF METALS.100,962, J. F. ADAMS
PHOTOGRAPHIC SHOW-CASE

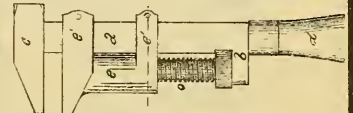
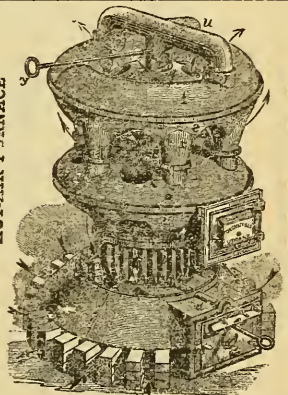
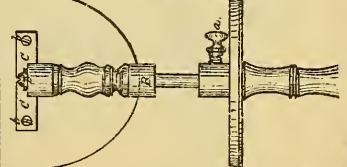
100,963, MOSES ADAMS. BUCKLES

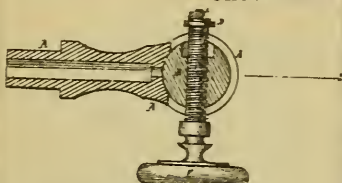
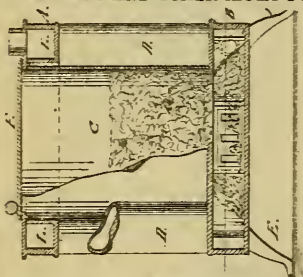
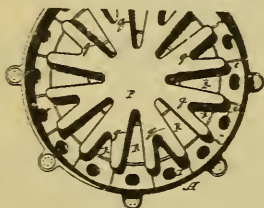
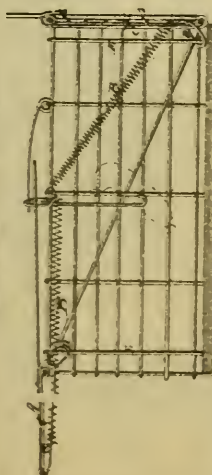
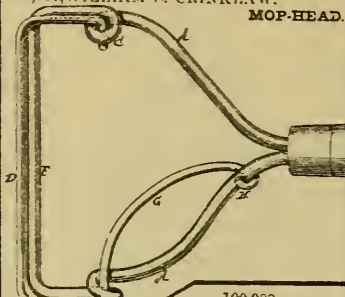
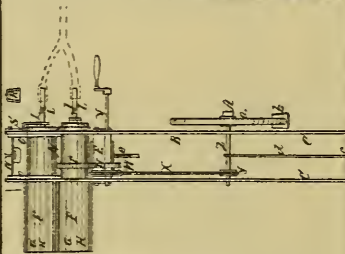
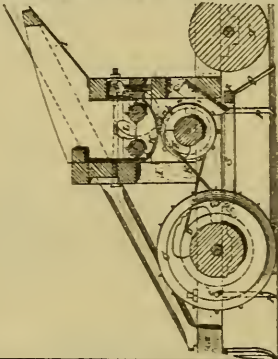
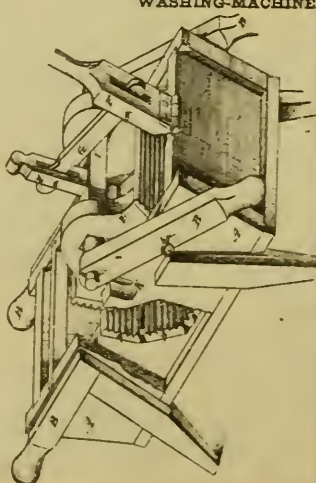
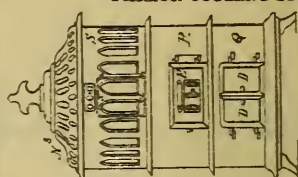
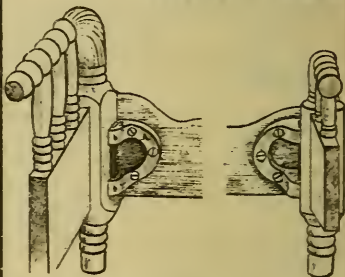
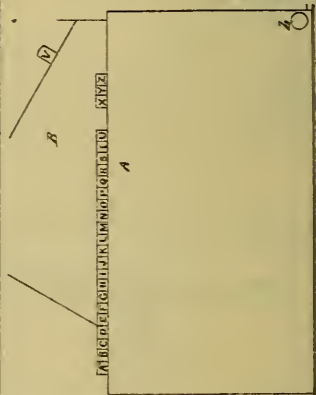
100,964, A. W. ALMQVIST.
F. W. OFELDT.

WATER-METERS.

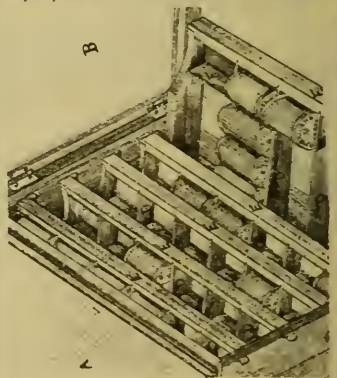
100,965, ARON ANDERSON.
TABLE-LEAF SUPPORT100,966, U. W. ARMSTRONG.
IRA KEENEY.
RUBBER CONNECTION FOR
MOSQUITO-NET FRAMES100,967, OSBORNE BARKER.
INSTRUMENTS FOR DOSING ANIMALS100,968, FERDINAND BLIESENICK
BOOT AND SHOE-HEELS.100,969, C. BLUST.
MATTHAU HARESTER.
CHURN-DASHER CRANK-FIXTURES.100,970, M. P. BRAY.
FASTENINGS FOR CORSETS100,971, WILLIAM G. BROWN.
FOOTSTOOL FOR CHURCHES.100,972, JAMES M. BURDICK.
HAY-TEDDERS.100,973, BRADLEY BURR.
CARRIAGE-WHEEL HUBS.100,974, JOHN F. BYLAND.
CORN-PLANTING ATTACHMENT
FOR PLOWS.100,975, GEORGE CAMPBELL.
FORGE.100,976, D. H. CHAMBERLAIN.
DEAD-EYES FOR WIRE RIGGING100,977, D. H. CHAMBERLAIN.
FRICTIONAL GEARING.

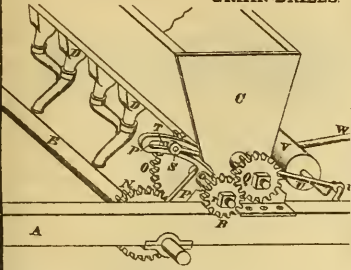
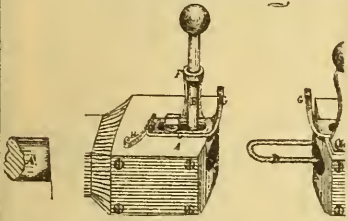
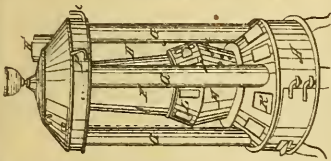
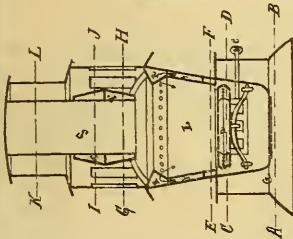
100,978, LUKE CHAPMAN. WRENCHES.

100,979,
THOMAS W. CHATFIELD.
HOT-AIR FURNACE100,980, GEORGE H. CHINNOCK.
TOILET-MIRROR.

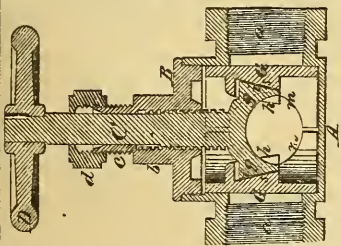
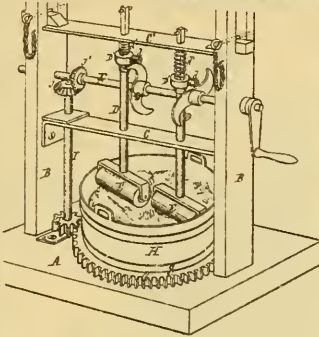
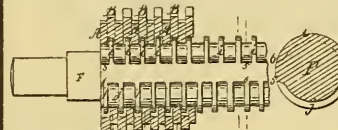
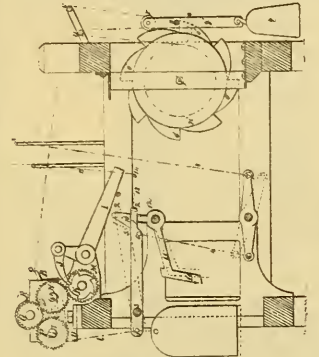
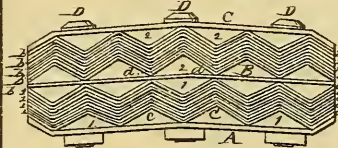
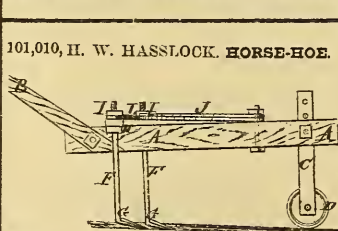
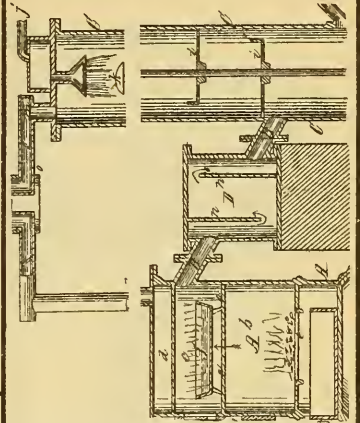
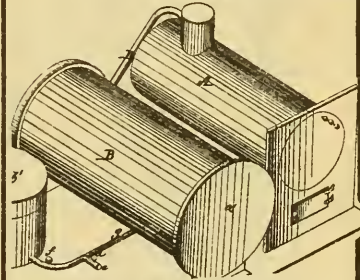
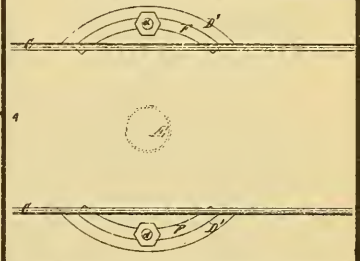
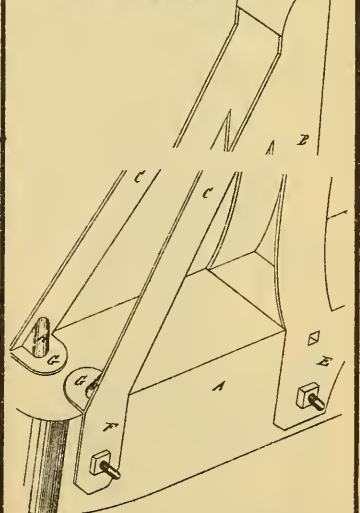
100,981, JOHN B. CHRISTOFFEL.
GAUGE-COCKS.100,982, ORLANDO CLARKE.
BASE-BURNING STOVE FOR
SHAVINGS AND OTHER LIGHT FUEL.100,983, ORLANDO CLARKE.
SECTIONAL STEAM-GENERATOR.100,984, JOSEPH CLUCKNER.
DIRT-GAUGE FOR PLOWS.100,985,
THOS. COGSWELL.
CUFF-SUPPORTERS.100,986, JASPER E. CORNING.
LOCKING DEVICE FOR TRAPS.100,987, WILLIAM S. CRINKLAW.
MOP-HEAD.100,988,
E. MORTIMER DEEY.
FASTENINGS FOR STUDS OR BUTTONS.100,989, EDWARD MORTIMER DEEY.
FLUTING-MACHINES.100,990, SAM'L. L. DONNELL.
COMBINED CORN AND COTTON-SEED
PLANTER AND GUANO-DIS-TRIBUTER.100,991, JAS. T. DORTON.
STEPHEN G. EUBANK.
WASHING-MACHINE.100,992, WM. DOYLE. BASE-BURNING
PARLOR COOKING-STOVE.100,993, C. H. FESSENDEN.
BEDSTEAD-FASTENING100,994, CHARLES A. FITCH.
WILLIAM O. ST. JOHN
LEDGER-INDEXES.

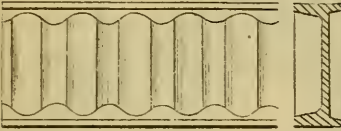
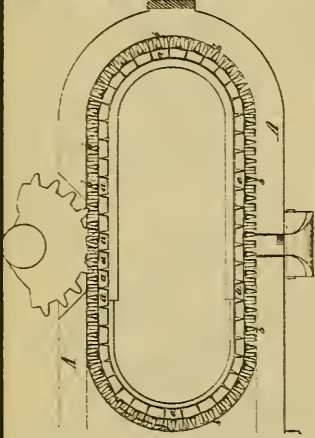
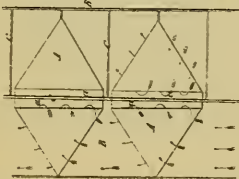
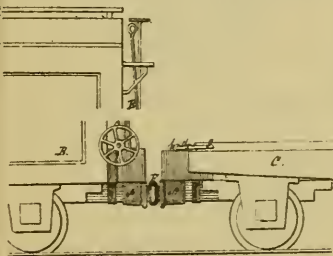
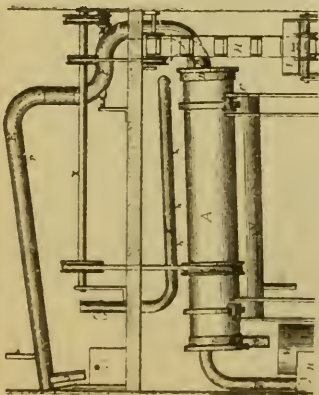
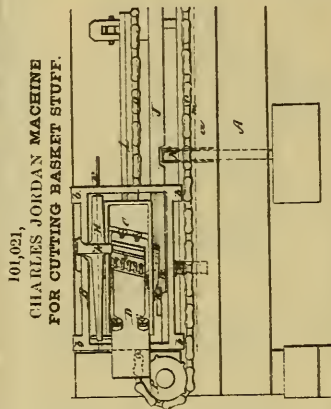
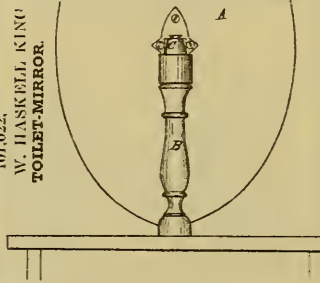
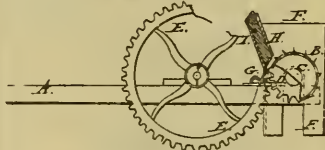
100,995, WM. F. FOSTER. SPOOL-CASE.

100,996, JOHN FREELAND.
DANL. WARD.
RAILWAY RAIL-JOINT.100,997, EDWARD S. FRYE.
REMOVING COLORS FROM LEATHER.

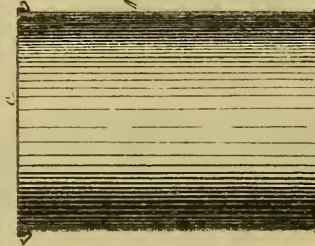
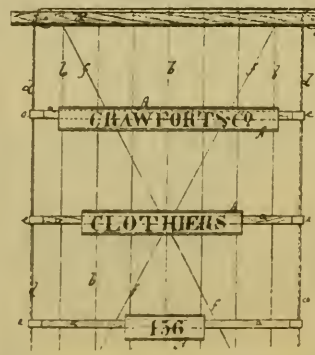
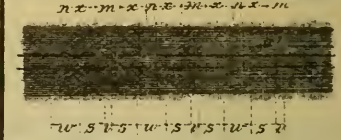
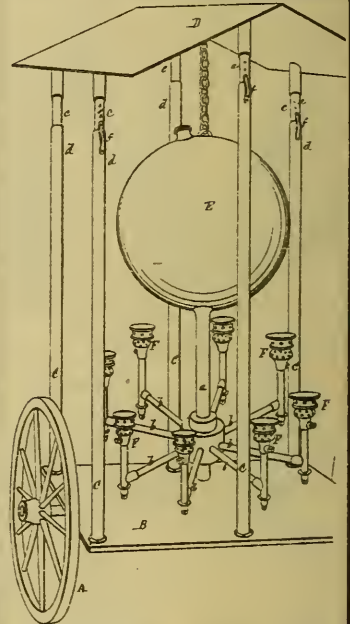
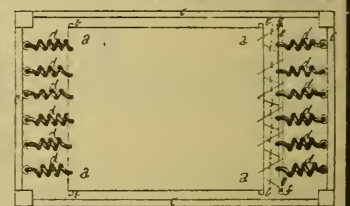
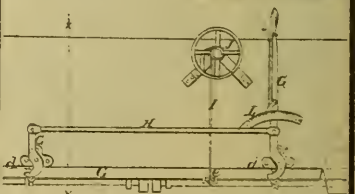
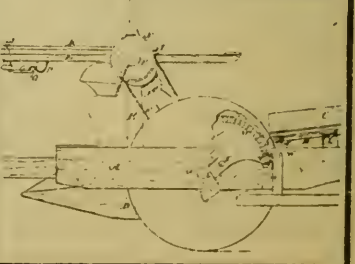
100,998, JESSE P. FULGHUM.
GRAIN-DRILLS.100,999, ADOLPH GEISS.
RAILWAY-CAR COUPLINGS.101,000, H. G. GILES.
BASE-BURNING STOVE.101,001 H. G. GILES.
BASE-BURNING STOVES.

101,002 L. D. GILMAN. STOP-VALVE.

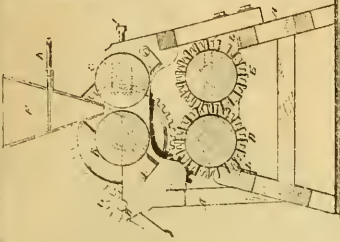
101,003. WILLIAM GOODAIRE.
GEORGE STEAD.
RESTORING WASTE
ALKALI USED IN OIL-REFINERIES.101,004, WM. F. GOODWIN.
PROPELLING CANAL-BOATS101,005, WM. F. GOODWIN.
WASHING-MACHINE.101,006, A. GOULLIUD. LOOM FOR
WEAVING IRREGULAR FABRICS.101,007, MELVIN R. GREEN.
SASH-BALANCES.101,008, ANTHONY HANKEY. BED-PLATE
FOR RAG OR PAPER-ENGINES.101,009, NAT. HASKELL.
EXTRACTING COPPER FROM ITS ORES.101,011, MORITZ HATSCHKE.
APPARATUS FOR PRODUCING
SULPHUROUS ACID.101,012, IRA HAYFORD.
THE PROCESS AND APPARATUS
FOR TREATING WOOD101,013, JOHN HENRY. BOLSTER AND
AXLE-BED PLATE FOR VEHICLES.101,014, JOHN HENRY
WAGON-STANDARD.

101,015, LAURENCE HOLMS.
METALLIC BEAM101,016, HENRY A. HOUSE
METHOD OF PRODUCING SELVAGES
ON MACHINE-KNIT STOCK-INGS, &c.101,017, THOS. HYDES.
JOSEPH BENNETT.
HEATING AND OTHER FURNACES101,018, WM. MILLER INGSTRUM.
CAR-COUPLING.101,019, GUSTAVUS A. JASPER.
APPARATUS
FOR COOLING AND SAVING CHARCOAL.101,020, GEO. T. JONES. MANUFACTURE
OF REVENUE AND OTHER STAMPS.101,021,
CHARLES JORDAN MACHINE
FOR CUTTING BASKET STUFF.101,022,
W. HASKELL KING
TOILET-MIRROR.101,023, WARREN KINYON. GRATER.
JOHN MAXSON.

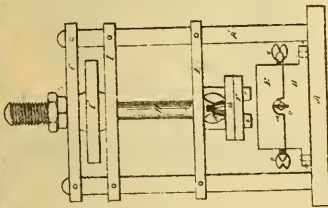
101,024, ISAAO KLING. FRUIT-CANS.

101,025, P. A. LA FRANCE. SIGNS.
J. D. DENSMORE.101,026, CATHOLINA LAMBERT.
WOVEN TRIMMING.101,027, LUIGI F. LASTRETO.
MEDICINAL BEVERAGE.101,028, AUGTE. LE BLANC.
COTTON-PLANT PROTECTOR101,029, GEORGE W. LOOMIS.
SPRING-BED BOTTOM.101,030, VIRGIL H. LYON.
DUMPING-WAGONS.101,031, J. B. McCORMICK.
HARVESTERS.

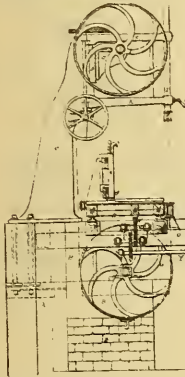
101,032, PAUL A. OLIVER MACHINE FOR
PRESSING AND GRAINING POWDER.



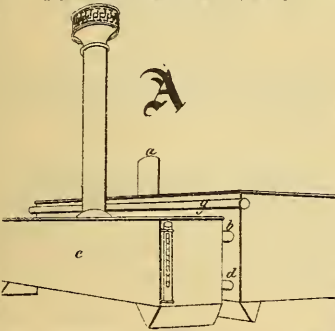
101,033, SAMUEL JOSEPH PEET.
DANIEL SAWYER.
MACHINES FOR FORMING MOLDS.



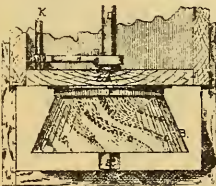
101,034, PERIN, SAW-MILLS



101,035, THOMAS F. PETERSON.
APPARATUS FOR PURIFYING WATER
FOR THE MANUFACTURE OF ICE.



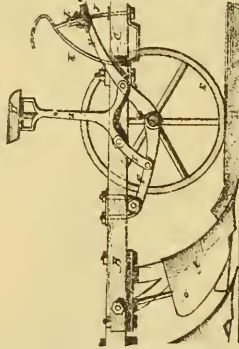
101,036, THOS. H. POWERS.
WATER-WHEELS.



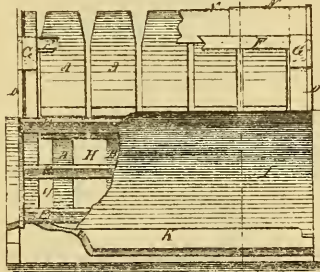
101,037, ONSVILLE EVANS PRAY.
TICKET-HOLDERS



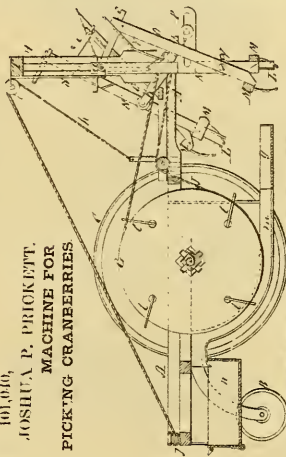
101,038, JACOB PRICE, GANG-FLOWS.



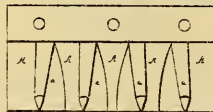
101,039, JOHN M. PRICE, BEE-HIVES.



101,040,
JOSHUA P. PROCKETT.
MACHINE FOR
PICKING CRANBERRIES

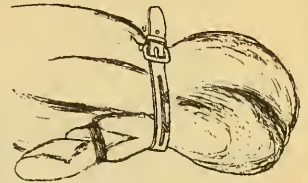


101,041, SAXON J. RAYMOND
KNIFE FOR SPLITTING WOOD.

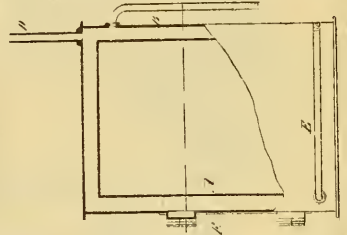


101,042, DAVID RINKLE.
STOMACH BITTERS.

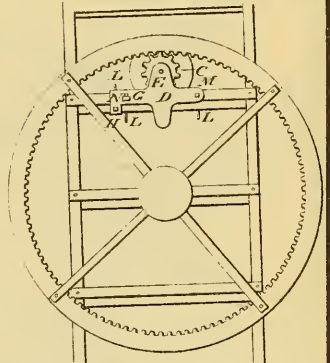
101,043, F. A. ROBERTS.
TAIL-HOLDER FOR HORSES.



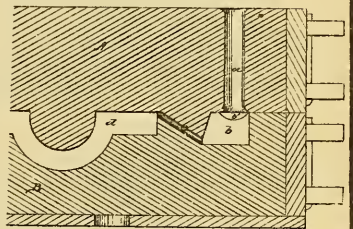
101,044, JOHN A. ROBERTSON, STEAM
PROTECTION FOR SAFES, VAULTS,



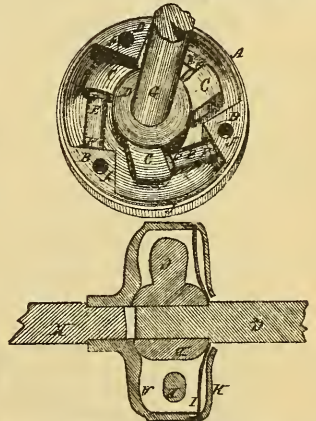
101,045, F. W. ROBINSON.
HORSE-POWER.



101,046, R. ROSS, CASTING METAL.

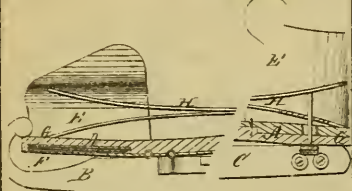
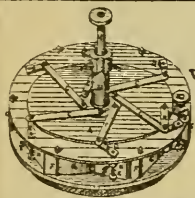


101,047, THEODORE ROWELL.
SHAFT-COUPING.

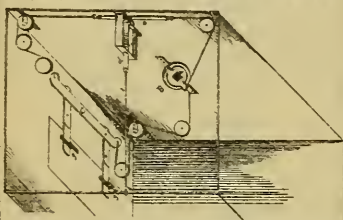
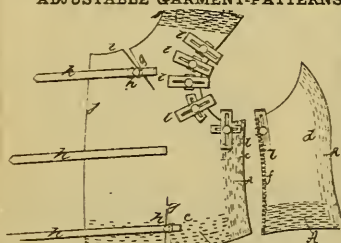
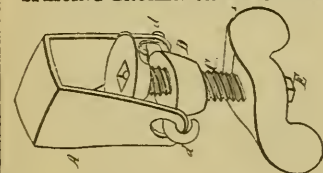
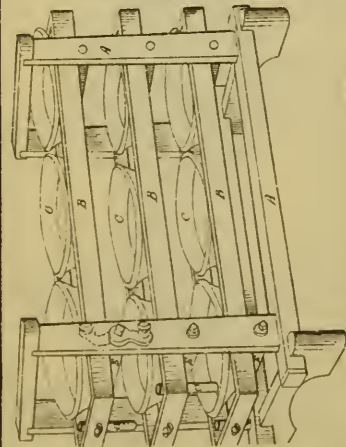
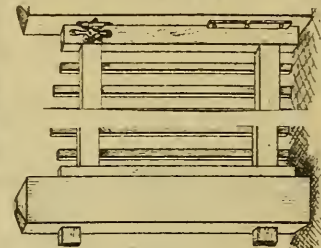
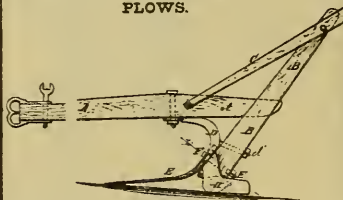
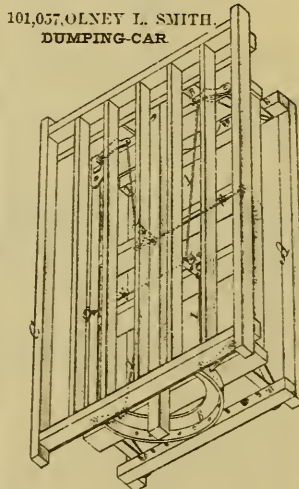
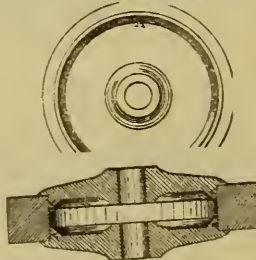
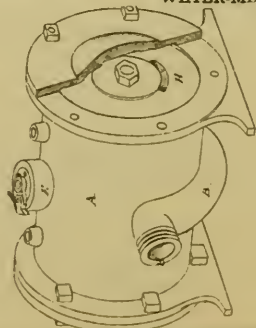
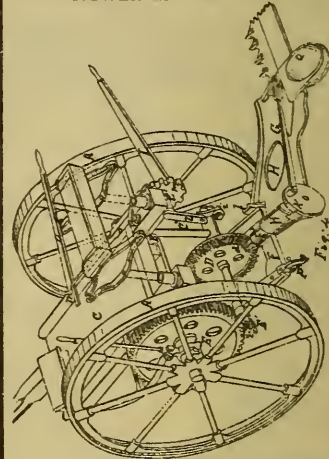
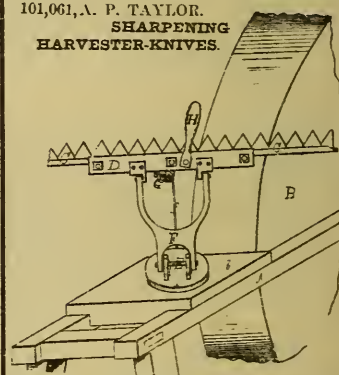
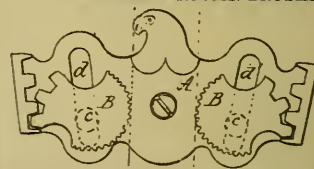


101,048 JOHN ROWLEY, TREATING COAL
PRODUCTS TO OBTAIN BENZOLE.

101,049, J. F. SCHNEIDER. SKATES.

101,050,
W. L. SELLECK.
WATER-WHEELS.

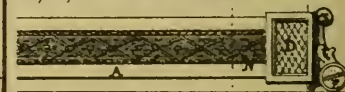
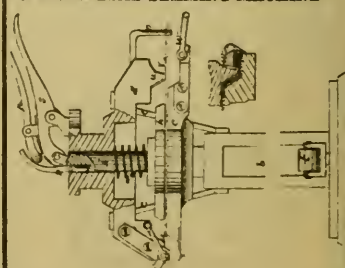
101,051, W. SHARTS. BOLTS FOR SAFES.

101,052, SAMUEL SHAWCROSS.
ADJUSTABLE GARMENT-PATTERNS.101,053, ALFRED E. SHEAFFER.
HAND-SCREW AND CLIP FOR
SPlicing BROKEN CARRIAGE-TIRES101,054, LAWSON SHIPMAN.
MILK-RACKS AND COOLERS.101,055, WARREN SHUMARD.
LATCHES FOR GATES.101,056, D. T. SINGLETON.
FLOWS.101,057, OLNEY L. SMITH.
DUMPING-CAR.101,058, F. A. SCWERKROP.
EMERY-WHEEL CLAMP.101,059, THOMAS SWEENEY.
WATER-METERS.101,060, J. OSCAR TAIER. COMBINED
MOWER AND HEDGE-TRIMMER101,061, A. P. TAYLOR.
SHARPENING
HARVESTER-KNIVES.101,062, A. B. THOMPSON. CLAMP FOR
HOLDING BROOMS, BRUSHES.

101,063, H. UHRY. STAIR-RODS



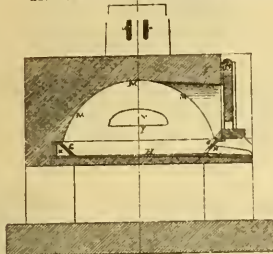
101,064, H. UHRY. STAIR-RODS.

101,065, JOHN M. VEASEY.
SHEET-METAL SEAMING-MACHINE

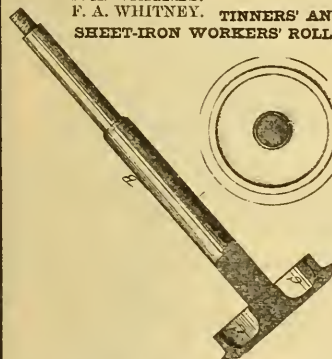
101,066, WILLIAM WESTLAKE.
ATTACHMENT FOR LAMP-BURNERS.



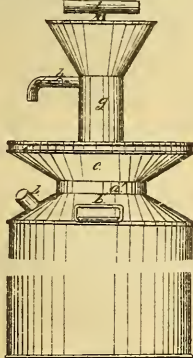
101,067, JAMES D. WHELPLEY.
JACOB J. STORER.
MANUFACTURE OF IRON AND
IN THE APPARATUS THEREFOR.



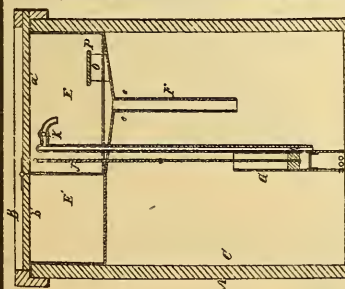
101,068, A. W. WHITNEY.
P. A. WHITNEY.
F. A. WHITNEY. TINNERS' AND
SHEET-IRON WORKERS' ROLLS.



101,069, ELI F. WILDER.
APPARATUS FOR MEASURING LIQUIDS



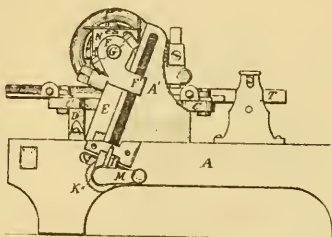
101,070, MOSES H. WILEY. OIL-CABINET.



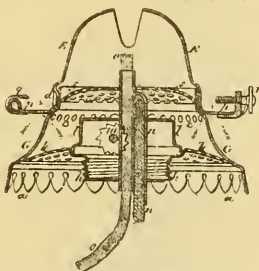
101,071, THOS. F. WOOD. COMPOUND
TO BE APPLIED TO ROOFING.



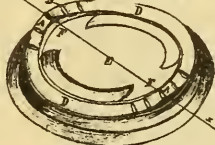
101,072, GEORGE E. WOODEURY.
PLANING-MACHINES.



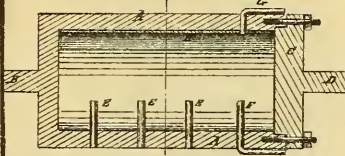
101,073, DAVID PITCAIRN WRIGHT.
CEPHAS BUTLER.
LAMP-BURNERS.



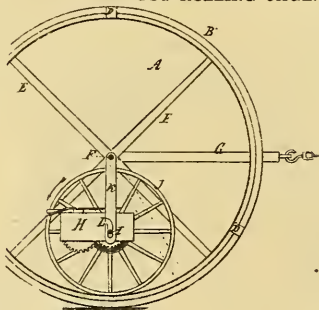
101,074, HOMER WRIGHT.
CAPS FOR FRUIT-JARS.



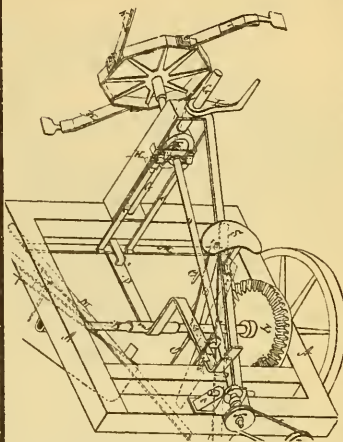
101,075, HOWELL W. WRIGHT.
ELECTROPLATING APPARATUS.



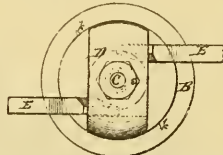
101,076, ARTHUR M. ALLEN.
TOY ROLLING CAGE.



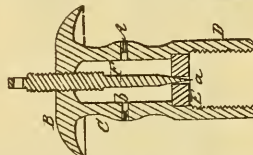
101,077,
WM. J. ANDREWS.
COTTON-CULTIVATOR



101,078, JOSEPH F. APPELEGATE.
CASPAR FEIOCK.
BUNGS.



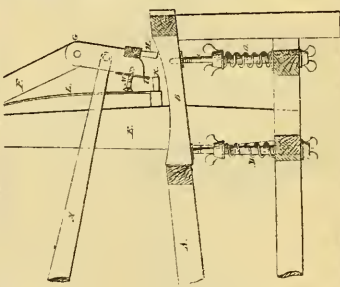
101,079, WILLIAM AURICH.
VAPOR-BURNERS.



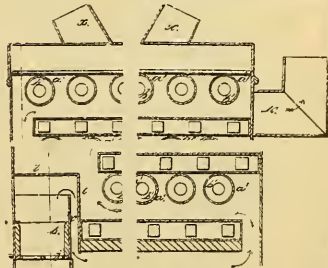
101,080, JAS. F. BABCOCK.
SPRINGS FOR RAILROAD CARS.



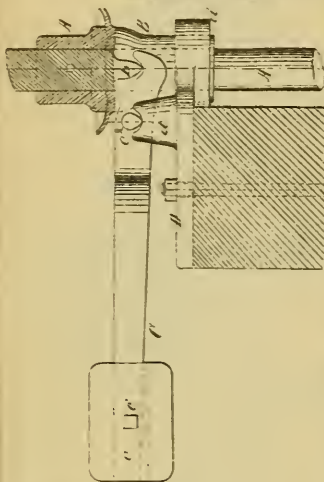
101,081, JAMES T. BARNSTEAD.
MACHINES FOR SCRAPING LEATHER.



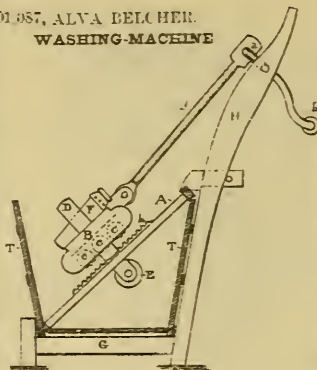
101,082, WM. D. BARTLETT.
HEATING-FURNACES.



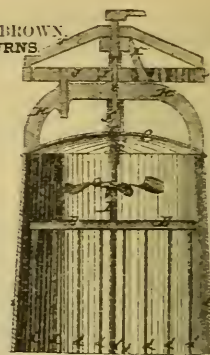
101,083, WM. BAYLEY.
ADJUSTABLE BEARINGS FOR
WATER-WHEEL SHAFTS



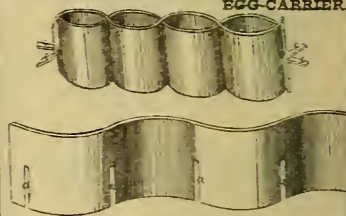
101,087, ALVA BELCHER.
WASHING-MACHINE



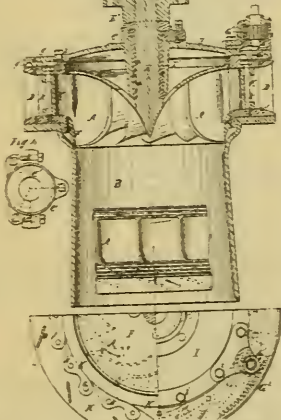
101,091,
G. C. BROWN.
CHURNS



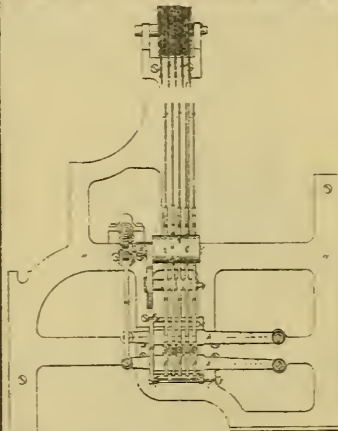
101,092, ABNER H. BRYANT.
EGG-CARRIER



101,084, WM. BAYLEY.
A. B. CROWELL.
TURBINE WATER-WHEELS



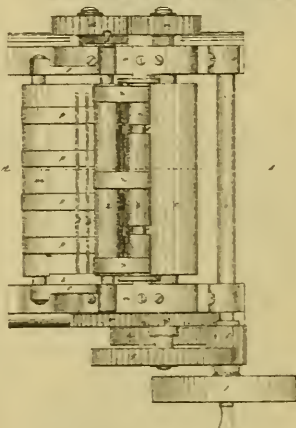
101,088, ERASTUS B. BIGELOW. LOOM



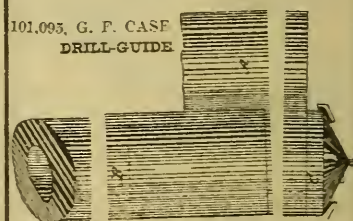
101,093, ABNER H. BRYANT.
EGG-CARRIERS



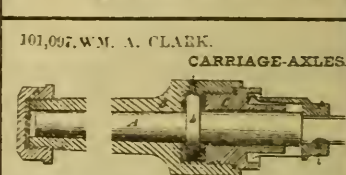
101,089, ERASTUS B. BIGELOW.
MACHINE FOR CRUSHING RAMIE
AND OTHER FIBROUS STALKS.



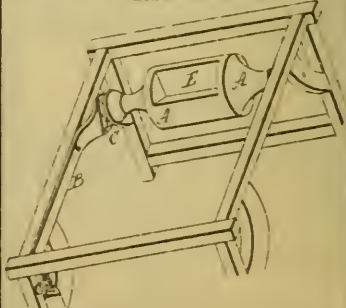
101,094, EDGAR D. BURRILL.
MEDICAL COMPOUND



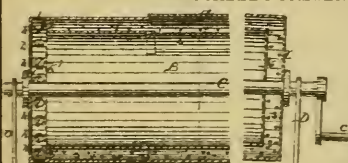
101,096 GEORGE W. CHATFIELD.
MEDICINE OR COUGH-SIRUP



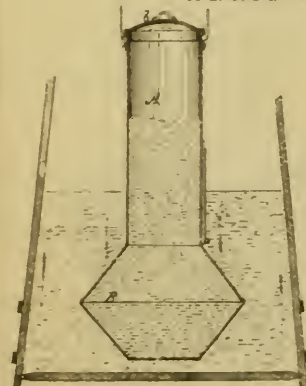
101,097, WM. A. CLARK.
CARRIAGE-AXLES



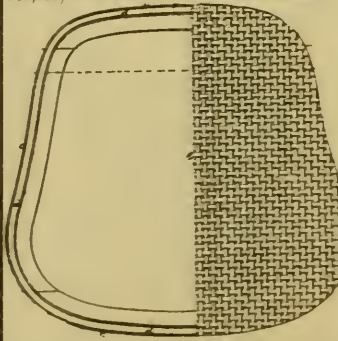
101,085, C. G. BAYLOR.
VEGETABLE-ROASTER

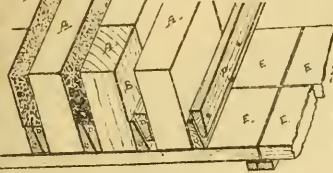
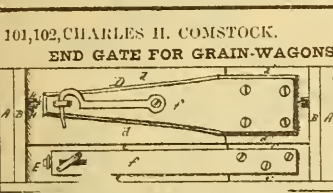
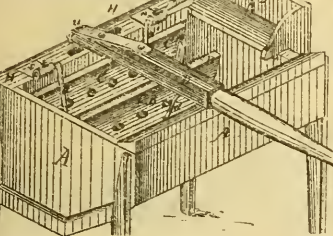


101,086, JAMES C. REDDOE.
JOHN S. COON.
CREAM-HEATER

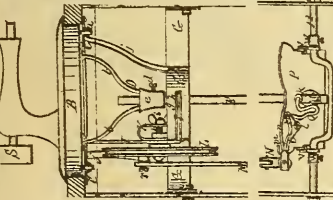
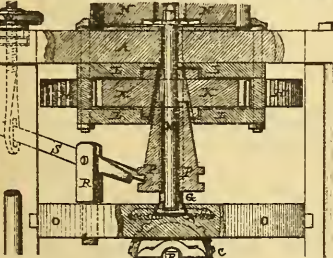
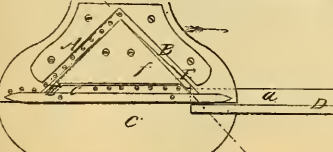
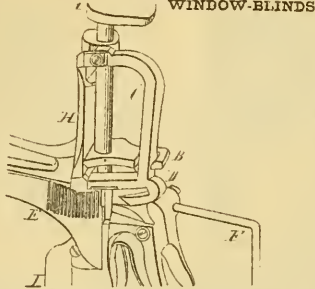


101,090, O. A. BINGHAM. CHAIR-SEAT

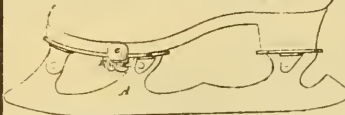
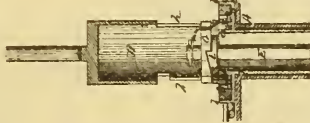
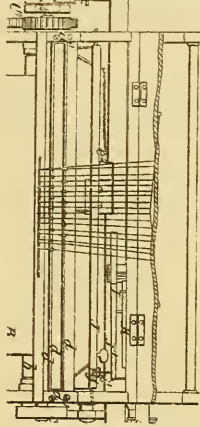
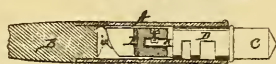
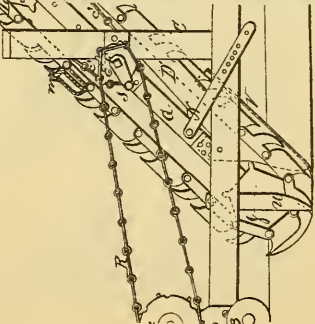


101,099, WILLIAM CLEMSON.
SAW-SWAGES.101,100, D. C. COLBY.
STREET PAVEMENT.101,101,
JAS. R. COLE, COMPOSITION FOR
THE MANUFACTURE OF TOBACCO
PIPES, STEMS, AND CIGAR-HOLDERS.101,103,
HENRY W. CONNOR.
WASHING-MACHINE.

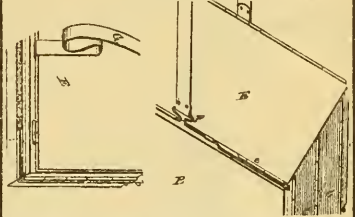
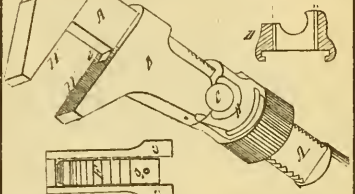
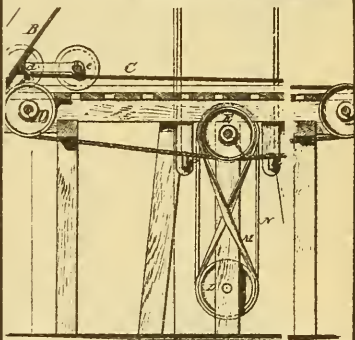
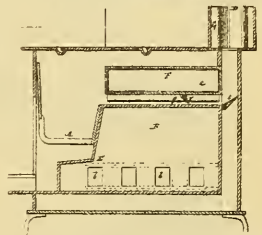
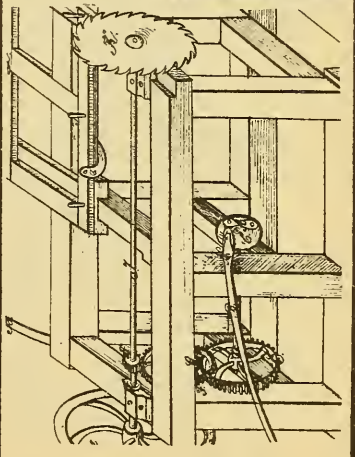
101,104, WILLIAM S. COON, TREADLES.

101,105, WILLIAM CRAWFORD.
SAMUEL CLARKE.
STOPPING AND STARTING MILL-BURS.101,106, ANTHONY G. DAVIS.
CHARLES W. BLAKESLEE.
ALPHEUS N. ALLEN.
KNITTING-MACHINES.101,107, BIRAM C. DAVIS.
MACHINE FOR WIRING
WINDOW-BLINDS.

101,108, CHARLES T. DAY, SKATES.

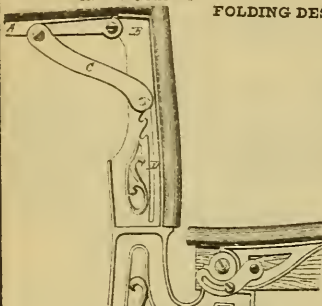
101,109, ELIPHALET DOUGHERTY.
STEP-SPINDLES.101,110, ISAAC C. DOWNES.
HORACE DOCK.
DROP-WIRE SUPPORTING-BARS OR
PLATES OF WARPING-MACHINES.101,111, G. D. DUNHAM.
HOLDER FOR DIAMONDS.101,112, A. J. DYE.
STEAM DITCHING-MACHINES.

101,113, JOHN ERPELDING, LUNCH-BOX.

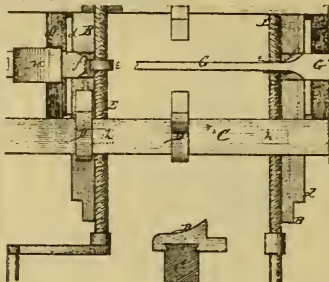
101,114, JOHN FAESSLER.
WRENCH101,115, WM. B. FRUE.
CAR, TRACK, AND OPERATING
-APPARATUS FOR MINES.101,116, WM. GARDNER.
GEO. GARDNER.
COOKING-STOVES AND RANGES.101,117, HOFFMAN D. GILLESPIE.
IN SAWING-MACHINES.

101,118. JULES WENDELL.
E. W. GILLES.

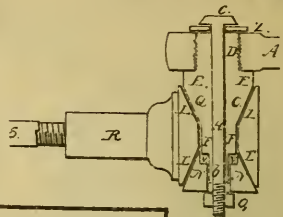
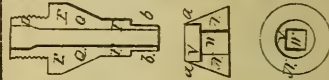
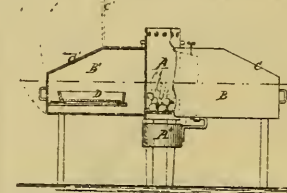
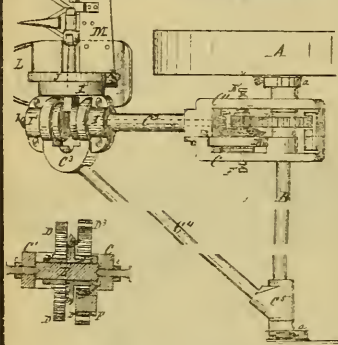
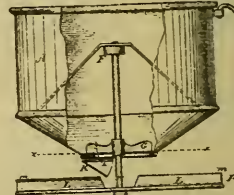
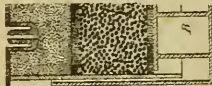
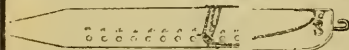
FOLDING DESK.



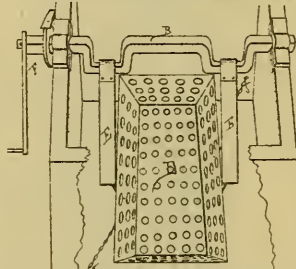
101,126. E. B. HAYES. CLAMPS.



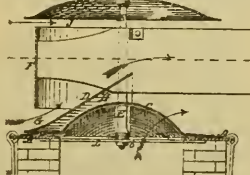
101,133. E. H. KEITH. GAME-REGISTERS.

101,134. J. KLINE.
HARVESTER CRANK AND PIN.101,119. W. B. GLEASON.
COMPOSITION HANDLE OR PULL.101,127. P. W. HERTICK.
COOKING-STOVES.101,135. HENRY KNAPP.
TREE-PROTECTORS.101,120. WM. F. GOODWIN.
IN HARVESTERS.101,128. VITALIS HIMMER.
LEMON-SQUEEZER.101,136. J. C. KURTZ.
BROADCAST SEEDER.101,121. SAMUEL C. GREENE.
HOLDERS FOR METALLIC
CARTRIDGE-CASES.101,122. CHARLES T. GRIMES.
HORSE HAY-FORKS.

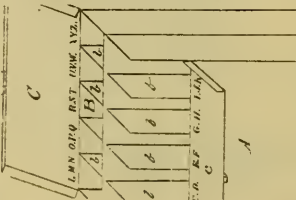
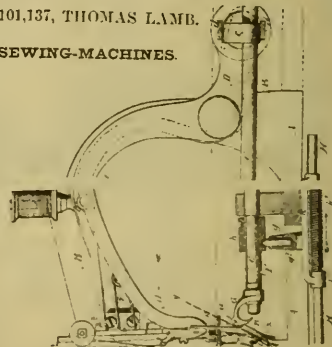
101,129. MARY HOBSON. DISH-WASHER.



101,123. DAVID HAHN. CHIMNEY-COWL.



101,130. AMOS HOCKETT. PAPER-FILES.

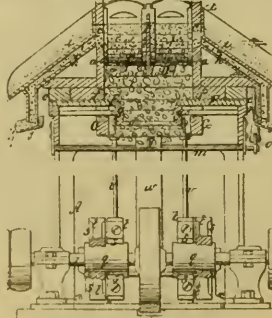
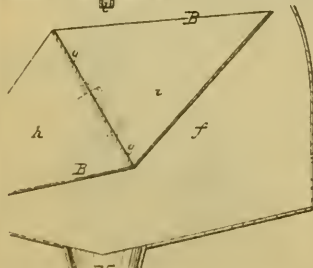
101,137. THOMAS LAMB.
SEWING-MACHINES.

101,124. S. M. HAMILTON. BRICK-KILNS.

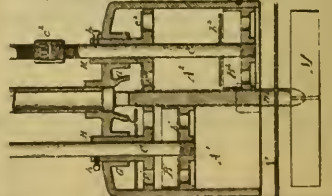


101,131. H. A. ROGEL. FERTILIZER.

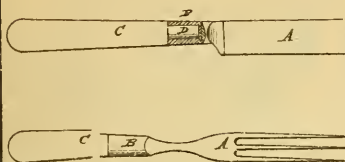
101,132. WILLIAM HOOPER. ORE-SEPARATOR.

101,125. T. C. HARGRAVE.
LIQUID METERS.

101,138. EDSON LAMPHEAR. PUMPS.

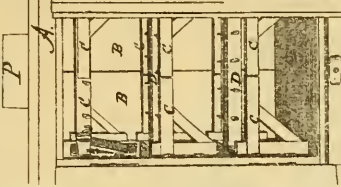


101,139, E. G. LAMSON. TABLE-CUTLERY.

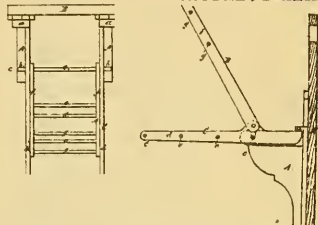


101,146, GEORGE L. MICHAEL.

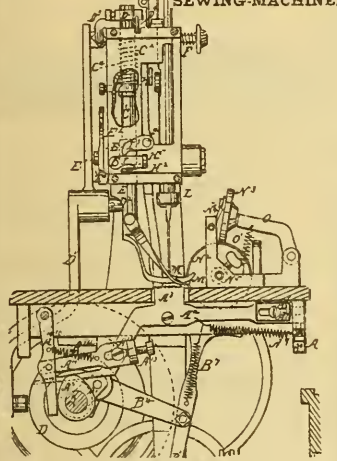
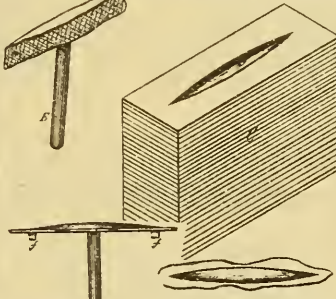
MEAT-SAFE.

101,153, FREDERICK S. NETTLETON.
ERWIN J. FULLER.

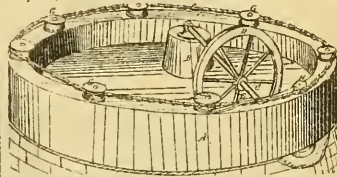
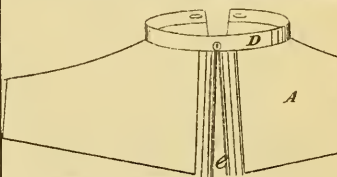
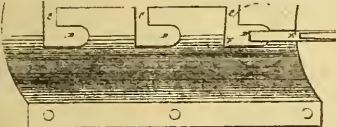
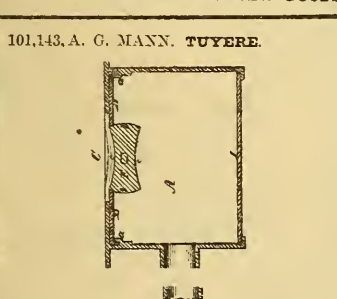
CLOTHES-DRIER.

101,140, RALPH LAWYER.
JOHN C. GASTEN.

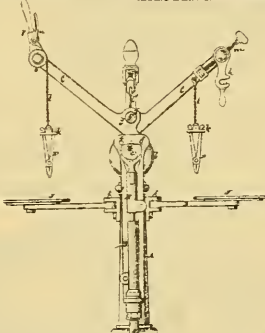
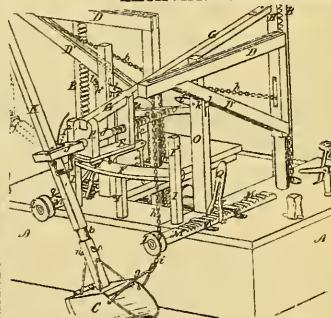
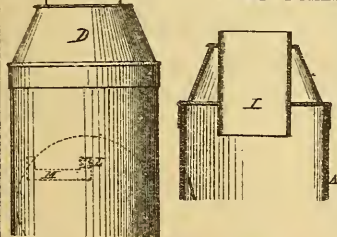
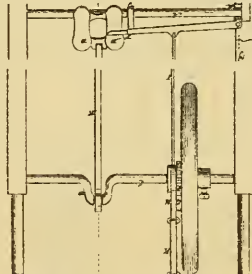
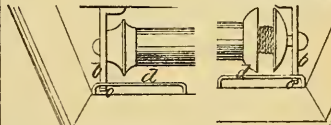
SEWING-MACHINE.

101,147, CLARK MOREHOUSE.
HEMMER FOR SEWING-MACHINE.101,148, ROBERT N. MORRILL.
SAND-SCREENS FOR
IRON TUBE-WELLS.101,149, F. B. MORSE.
DIE FOR FORMING T-BOLTS
FOR WHIFFLETREES.

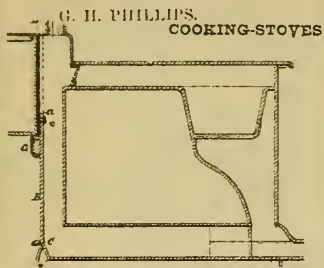
101,154, G. E. NOYES. PUG-MILLS.

101,155, MOSES PALMER, JR.
SHIRT-YOKES.101,141, SHERROD S. LITTLE.
HENRY P. WESTCOTT.
HARNESS-FASTENING.101,150, F. B. MORSE.
CARRIAGE-STEPS.101,142, HENRY LOEWENBERG.
DIES FOR THE MANUFACTURE OF
IMITATION-STRAW GOODS.

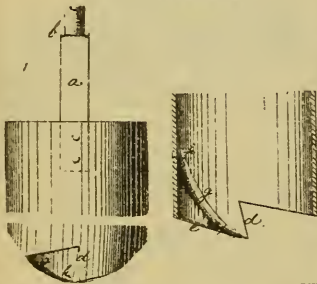
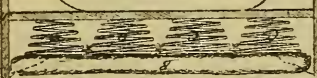
101,143, A. G. MANX. TUYERE.

101,151, MOYON.
EGNE. LEMERCIER.
LASTING-MACHINE.101,157, WALTER H. PEARSON.
DREDGING AND
EXCAVATING-MACHINES.101,144, GEORGE W. McDANIEL.
MONEY-BOXES.101,152, ORWELL H. NEEDHAM.
TREADLES.101,158, ANTHONY PEPLE.
MODE OF ATTACHING CORNICES
TO WINDOWS.101,145, JNO. A. MCKINNON.
MEDICAL COMPOUND FOR
THE CURE OF COLIC.

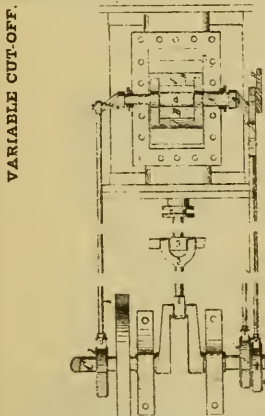
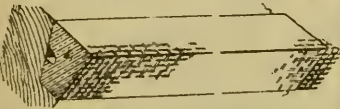
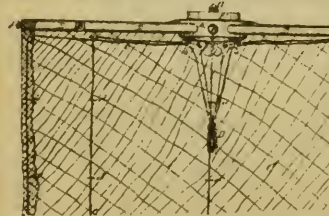
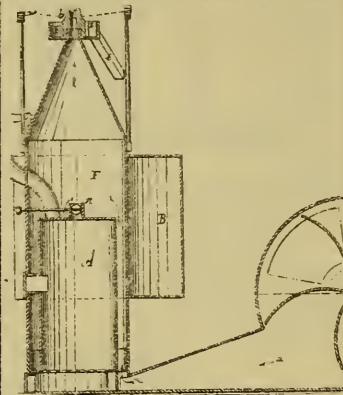
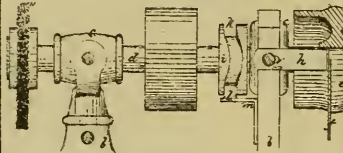
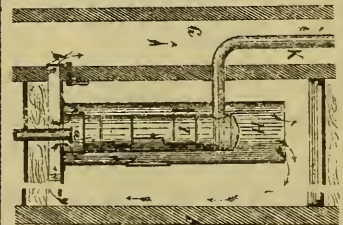
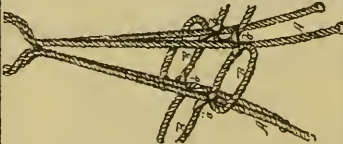
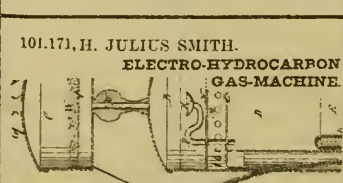
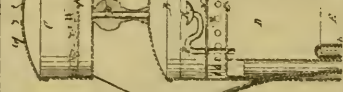
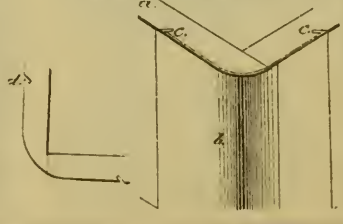
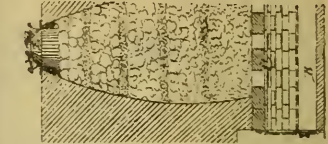
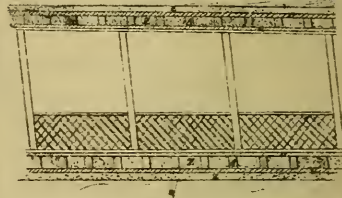
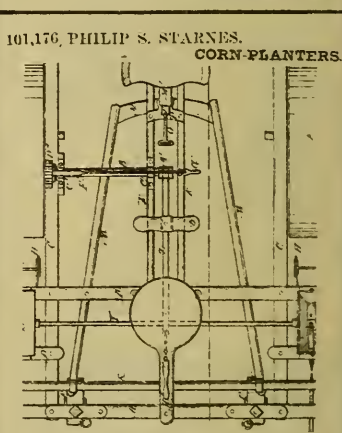
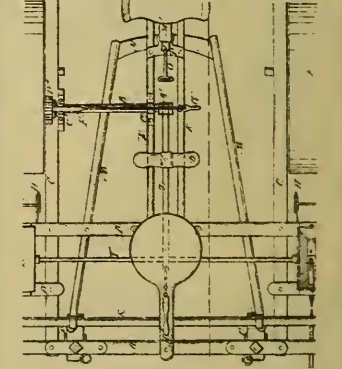
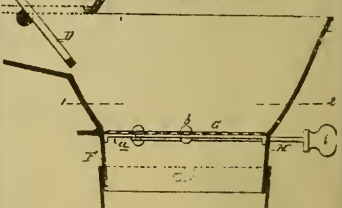
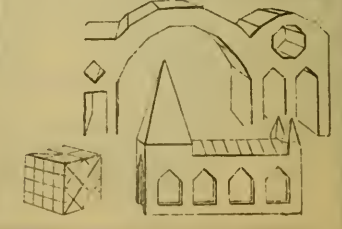
101,150.



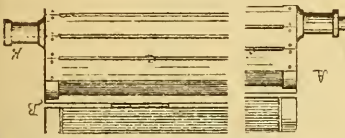
101,160. S. POPE. EARTH AUGER.

101,161. JOSEPH H. POTTS.
SPRING FOR BED-BOTTOMS.

101,162. JOSEPH HANDLES.

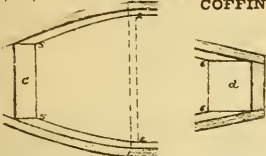
101,163. CHAS. L. RICHARDS.
INDIA-RUBBER BILLIARD-CUSHIONS.101,164. JOHN G. ROBINSON
HUB-REAMER101,165. A. M. RODGERS.
CANOPY FOR BEDSTEADS.101,166. RICHARD ROSCHACKI.
APPARATUS FOR PITCHING BARRELS.101,167. J. H. SAWYER.
C. KENISTON.
MACHINE FOR BURNISHING
BOOT AND SHOE-HEELS101,168. G. F. SCHULZE
HEATING AND VENTILATING.101,169. DANIEL SHERWOOD.
TABLE-CASTER101,170. JOHN P. SIMONDS.
INKS FOR PRINTING STAMPS
DRAFTS AND CHECKS.101,171. H. JULIUS SMITH.
ELECTRO-HYDROCARBON
GAS-MACHINE.101,172. ORSON H. SMITH.
WILLET FISHER.
METALLIC CORNER-SUPPORTS FOR
CARRIAGE-BOXES AND SEATS.101,173. R. A. SMITH.
LIME-KILNS.101,174. CHARLES SPEAR.
SUBMARINE TUNNELS101,175. DANIEL SPILL.
MANUFACTURE OF XYLOIDINE
AND ITS COMPOUND.101,176. PHILIP S. STARNES.
CORN-PLANTERS.101,177. WALTER S. STEVENSON.
COOKING-STOVE101,178. W. D. STROUD
SEEDERS AND CULTIVATORS
COMBINED101,179. A. B. SWIFT.
CONNECTING ARCHITECTURAL
TOY-BLOCKS.

101,180.

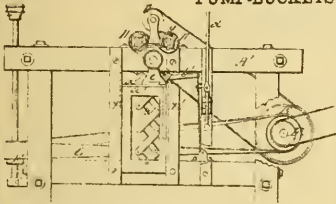
SAML. G. TAYLOR
COFFEE-CLEANERS.

101,181, THOS. M. TAYOR.

COFFINS

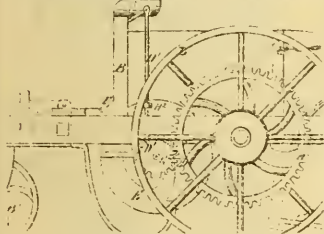


101,182, JOHN F. TEMPLE.

MACHINE FOR MAKING
PUMP-BUCKETS

101,183, CLARK M. TERRELL.

HAY-GATHERERS AND SHOCKERS.



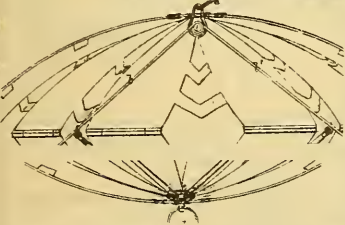
101,184, WM. P. THOMSON.

ADJUSTABLE CHEESE-HOOP.



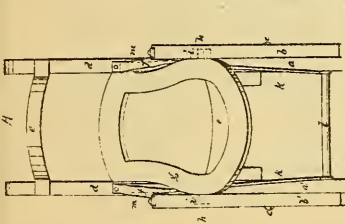
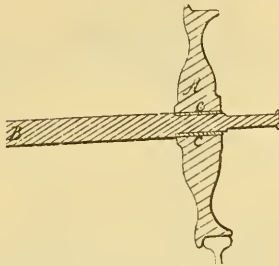
101,185 DENNIS TOWNSEND.

FOLDING CARD GLOBES.

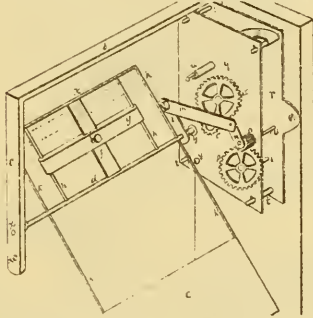


101,186, JOSEPH H. TRAVIS.

FOLDING CHAIR.

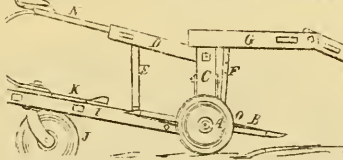
101,187, LUCH'S E. TRUESDELL.
RAILROAD-CAR AXLES.101,188, S. J. TUCKER.
JOHN H. ROSE.

AUTOMATIC FAN.



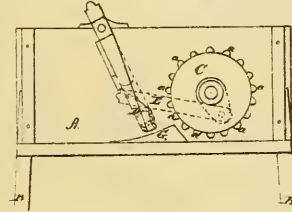
101,189, CYRUS TYLER.

HORSE HAY-RAKES



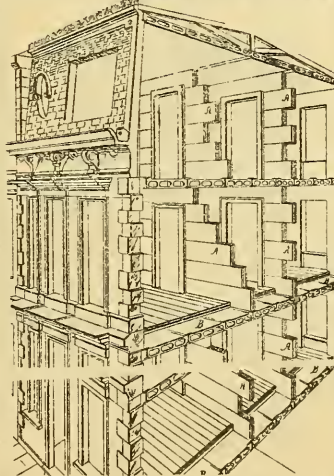
101,190, JOHN D. VAN DUSEN.

WASHING-MACHINE

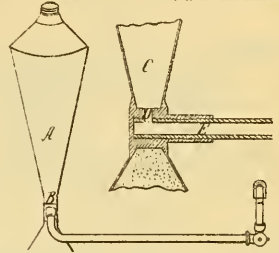


101,191, ANTHONY WANNER.

IN FIRE-PROOF BUILDINGS.

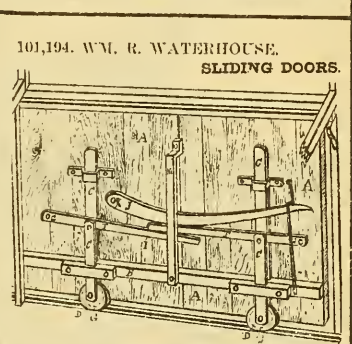


101,192, THOMAS WARD. FLUID-LAMPS.



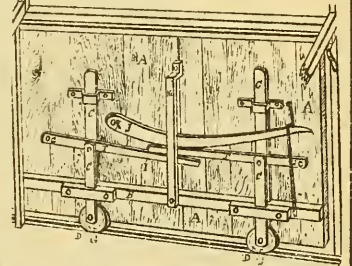
101,193, ALEXANDER WARFIELD.

MANUFACTURE OF SOAP.



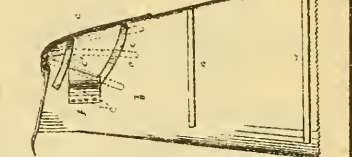
101,194, WM. R. WATERHOUSE.

SLIDING DOORS.



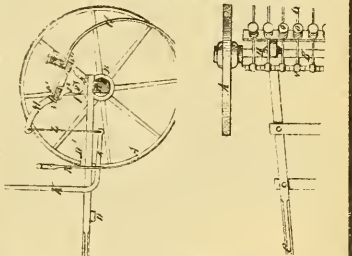
101,195, JULIUS WATERMAN.

HOOP-SKIRTS.



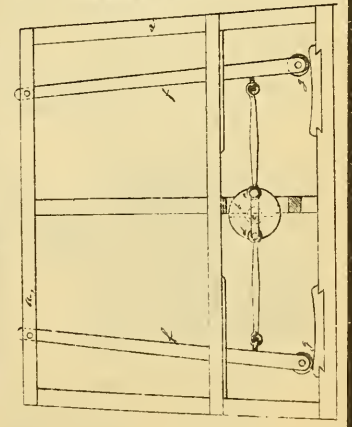
101,196, GODFRIED WEILAND.

HORSE HAY-RAKES.

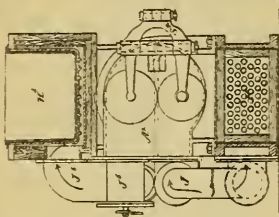


101,197, H. J. WESTON.

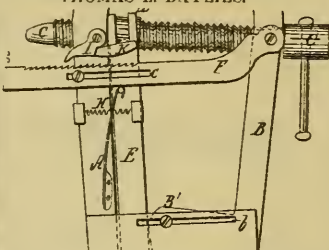
LEATHER-ROLLING MACHINE



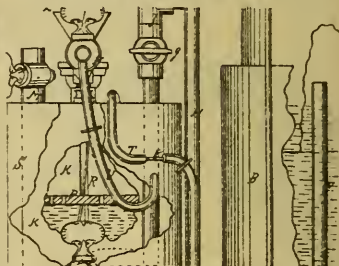
101,198, FRANZ WINDHAUSEN.
ICE-MACHINES.



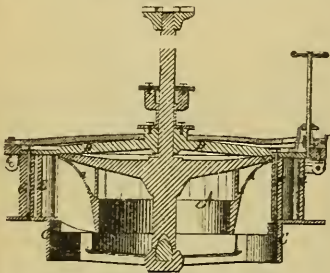
3,883, EDWIN CRAWLEY. VISE.
THOMAS L. BAYLIES.



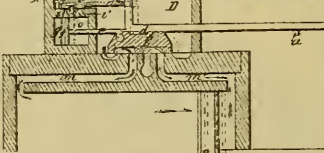
3,892, ARTHUR BARBARIN. APPARATUS
FOR CARBURETING AIR AND GAS.



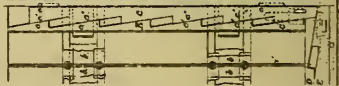
101,199, A. N. WOLF. WATER-WHEELS.
JOEL HAUG.



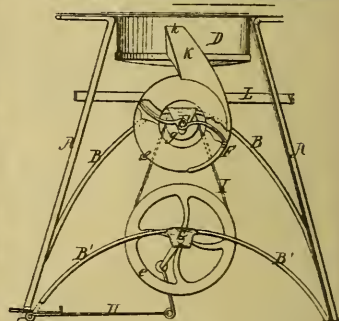
3,885, GEO. W. HUBBARD. OPERATING
WM. F. COXANT.
SLIDE-VALVES IN DIRECT-ACTING
ENGINES.



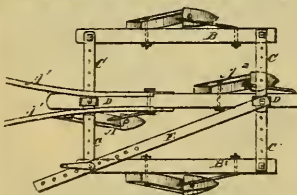
3,893, R. HIOE PRINTING-PRESSES.



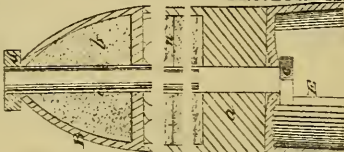
3,894, A. THOMAS.
PORTABLE FORGING-APPARATUS.



101,200, JOHN WOLPERT.
COMBINED FLOW AND CULTIVATOR.



3,886, JOHN D. RICHARDS.
PROJECTILES.



3,887, T. J. SULLIVAN. SAFES.



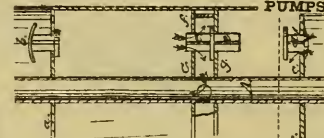
101,201, W. D. WOODS. KNIFE-HANDLES.



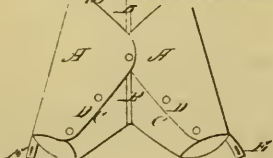
101,202, ALBERT F. ZIEGLER.
VAPOR-BURNERS.



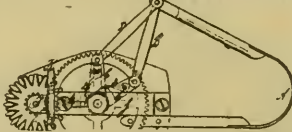
3,888, FORRESTER MANUFACTURING CO.
SAMUEL WILMOT.
PUMPS.



101,203, FREDERICK WITTRAM.
DRESS-PROTECTORS.

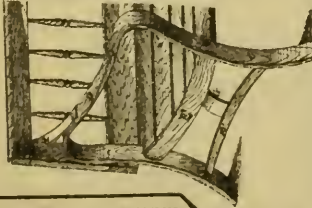


3,889, ROBT. M. WILDER.
HIRAM B. ROBINSON.
SHEEP-SHEARS.



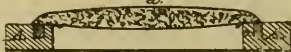
3,881, THEODORE BRINKMANN.
FIRE AND WATER-PROOF PAINT
AND CEMENT.

3,882, WESLEY CHASE. SETTEE.



3,894, GEO. GUENTHER.
E. H. NEYMANN.
MANUFACTURE OF GLUE.

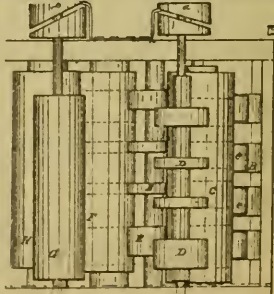
3,890, GEO. C. WINCHESTER.
CHAIR-SEAT.



3,891, E. F. ANDERSON. TEACHERS' TOY.



3,896, VALENTINE WOOD. INKING-
J. E. SUTTERLIN.
VALENTINE WOOD.
APPARATUS FOR PRINTING-PRESSES.



ILLUSTRATIONS OF PATENTS

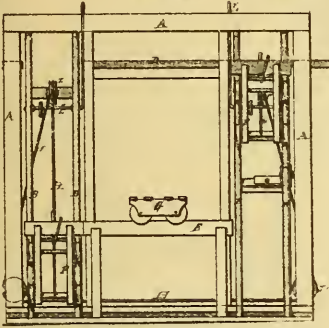
ISSUED FROM

THE UNITED STATES PATENT OFFICE

MARCH 29, 1870.

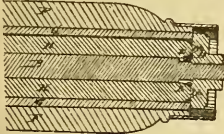
101,204, JOHN M. ABBOTT.

ELEVATED RAILWAYS.



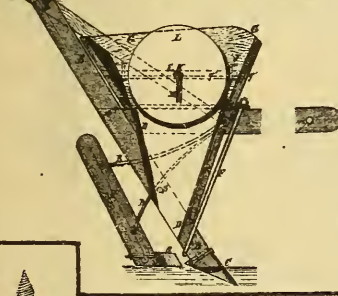
ANTI-FRICTION CARRIAGE-AXLES.

101,205, ALONZO ALLCOTT.



101,206, JOHN P. ALLEN.

COTTON-SEED PLANTERS.

101,207, ALLEN S. APGAR.
SCREW AND SCREW-DRIVER.

101,208, W. J. ARRINGTON.

CARRIAGE-WHEEL HUBS.

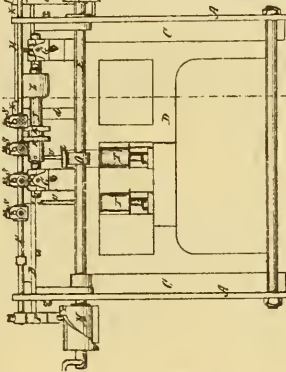
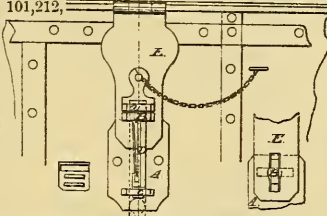
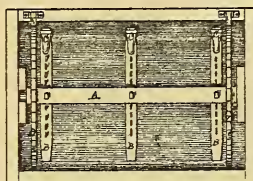


101,209, KNIVES.

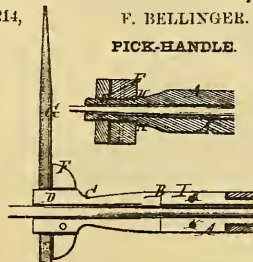
NOYES E. BABCOCK.
GEORGE D. GOODSSELL

101,210, JOSEPH H. BAIRD.

HINGE-MACHINE.

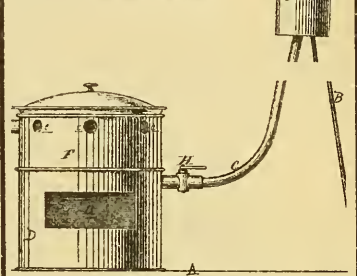
101,211, THO. W. BARTHOLOMEW.
SUSPENDERS.S. THOMPSON BARTON. HASPS FOR
JOHN W. AFFRON. TRUNKS, &c.101,213, W. B. ROWLAND. OTIS W. BEAN.
APPARATUS FOR TANNING LEATHER.

101,214,

F. BELLINGER.
PICK-HANDLE.

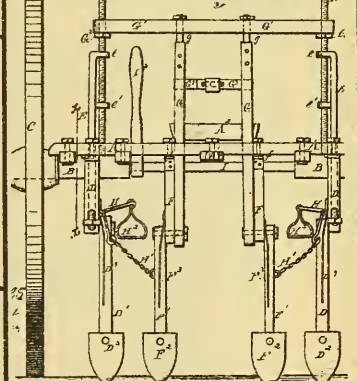
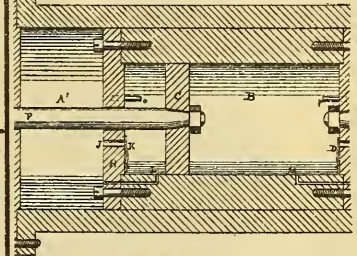
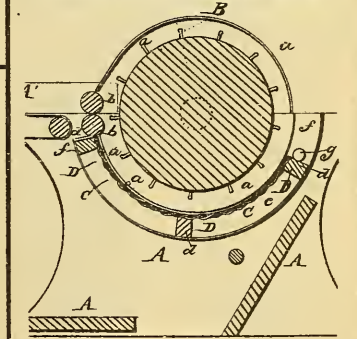
101,215, DAVID BERKEY.

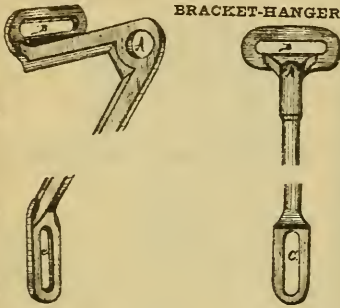
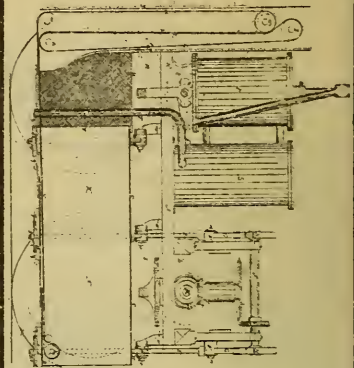
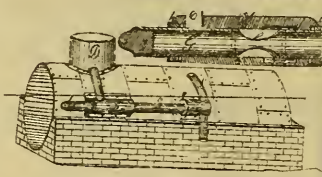
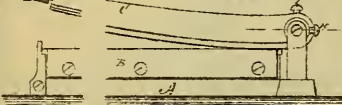
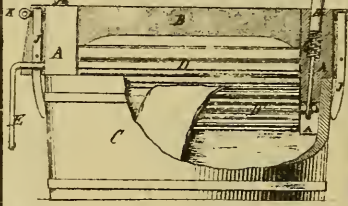
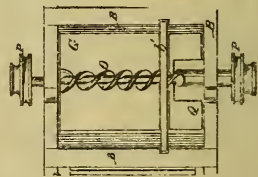
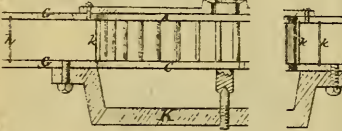
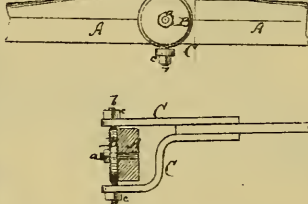
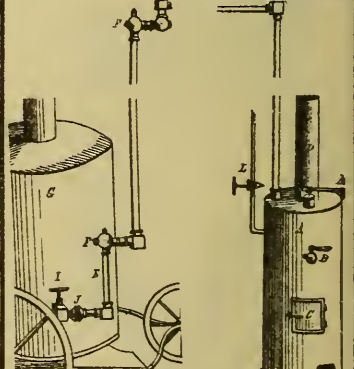
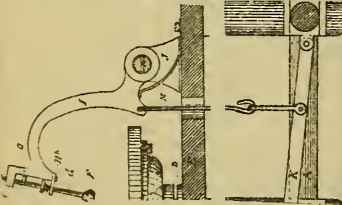
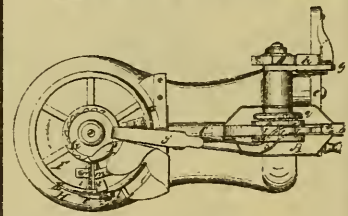
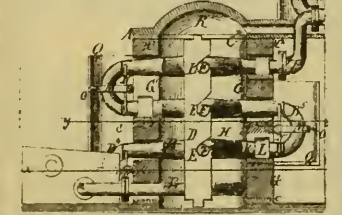
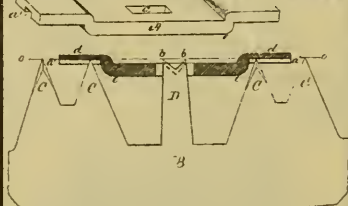
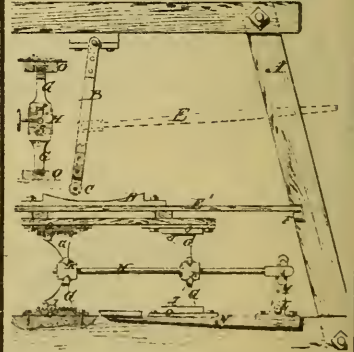
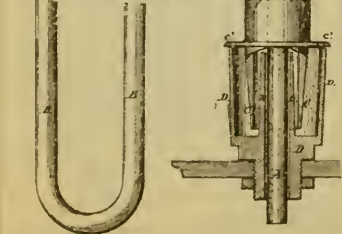
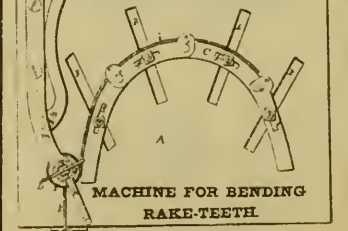
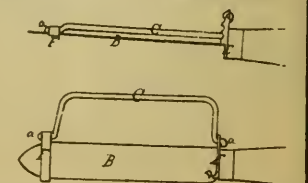
VAPOR-BURNER.



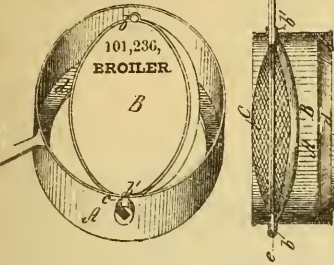
101,216, CHARLES BIRD.

CULTIVATORS.

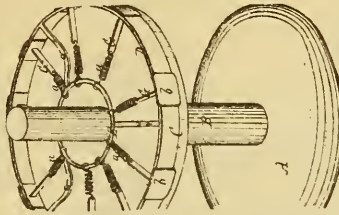
101,217, GEO. F. BLAKE. MODE OF
CUSHIONING STEAM-PISTONS.101,218, MILTON BLISS. MACHINE FOR
PICKING AND DUSTING WOOL.

101,219, CHARLES E. BLIVEN
BRACKET-HANGER.101,223, JOHN M. CASE.
STEAM-BOILER FEEDER.101,220, JAMES BOOTH.
SHEARS.101,226, GEO. R. CHANDLER.
WASHING-MACHINE.WM. W. CROOM.
101,232 COTTON-SEED PLANTER, &c.101,221, CLARK BOYD.
TURBINE
WATER-WHEELS.WILLIAM CLARK, KING-BOLT FOR
101,227, CARRIAGES.101,233, HUGH E. CUREY.
STEAM-GENERATOR.101,222, WARREN S. BURGESS.
GEORGE A. LENZI
APPARATUS FOR CUTTING
PHOTOGRAPHIC PRINTS.101,228, NATHAN S. CLEMENT.
MACHINE FOR NICKING SCREWS.101,223, A. BURTONSHAW.
HOT-BLAST FURNACES.101,229, WILLIAM CLEMONS.
SAW-GAUGES.101,234, JOHN G. CURTIS.
ROLLING-MACHINE FOR LEATHER.101,224, JOHN BUTLER.
COUPLINGS
FOR CONNECTING THE INLET-PIPE
TO THE RETORT
OF A GAS-MACHINE.101,230, COLUMBUS COLEMAN.
MACHINE FOR BENDING
RAKE-TEETH101,235, GILBERT K. DEARBORN.
KNIFE-GUARD.101,231, ROBERT F. COOKE.
COTTON-PICKERS

DANIEL W. DENMAN.
WILLIAM K. TILLOTSON.

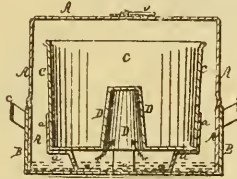


101,242, WM. B. ELLIOTT. APPARATUS
FOR SETTING UP BARRELS.

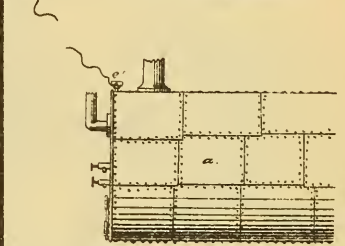


101,243, ELIJAH ENGLAND. TANNING

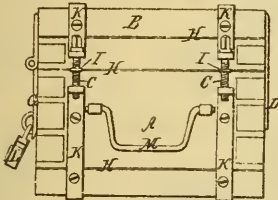
101,244, CHARLES ESTABROOKS.
CULINARY VESSEL.



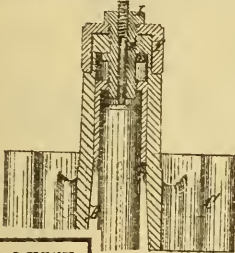
101,248,
JOHN T. FISHER.
PREVENTING THE
INCORUSTATION OF
STEAM-BOILERS.



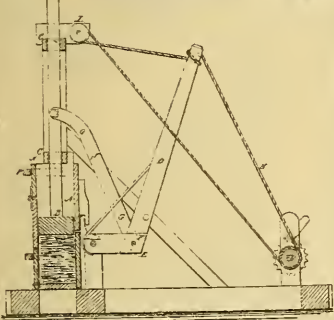
101,237, TRUNKS. HEINRICH DOERR.



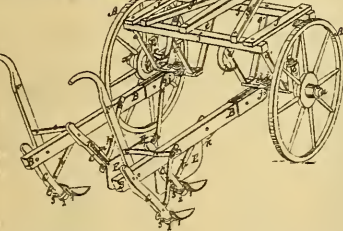
101,238, JOHN DU BOIS. FASTENING
E. F. BEUGLER.
FOR CUTTER-HEADS, PULLEYS, &c.



101,239, J. S. DUFFY.
COTTON AND HAY-PRESSES.



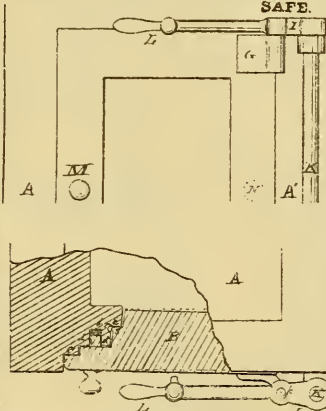
101,240, S. H. DWIGHT.
WHEELED W. B. CHAMBERS.
CULTIVATORS.



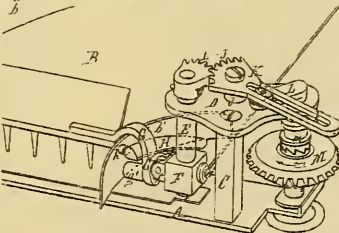
101,241, ASAHEL N. ELLIOTT.
MATERIAL FOR CHAIR-SEATS.



101,245, J. FARREL AND J. WEIMAR

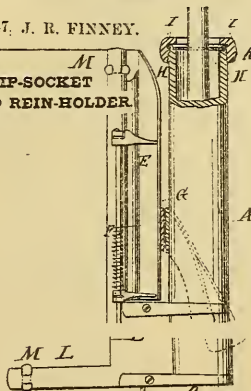


101,246, JOEL FARRINGTON.
HARVESTER-RAKES

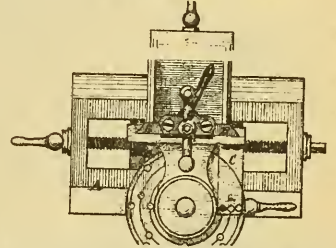


101,247, J. R. FINNEY.

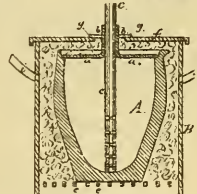
WHIP-SOCKET
AND REIN-HOLDER.



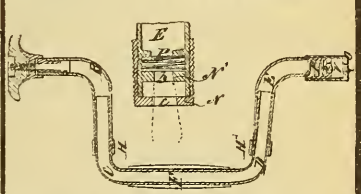
101,249, JAMES FLOWER.
LATHE FOR SQUARING NUTS, &c.



101,250, HIRAM C. FOLSOM. CONVERTING
ARTICLES MADE OF IRON INTO STEEL



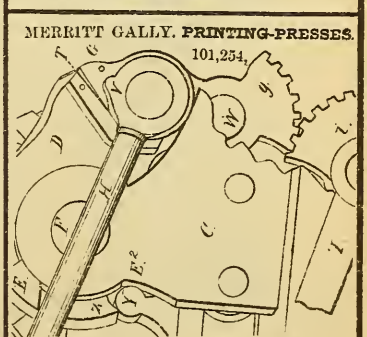
101,251, D. P. FOSTER. BIT-STOCKS.



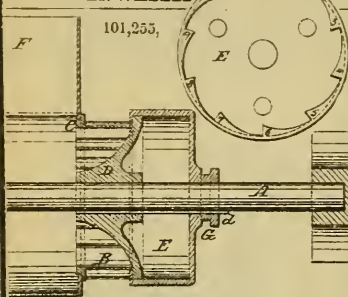
101,252, JOHN FRASER.
HORSE-COLLAR-PAD PRESS.



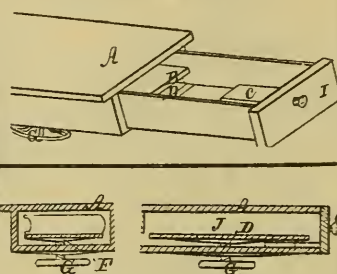
101,253, A. H. FREAR. MANUFACTURE
OF ARTIFICIAL STONE



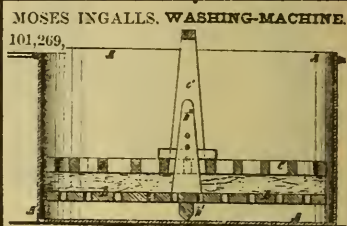
JAMES E. GILLESPIE.
HORATIO B. WEAVER.
WATER-WHEELS.



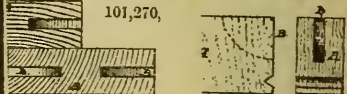
101,262, WILLIAM H. HAWKINS.
COPYING-PRESSES.



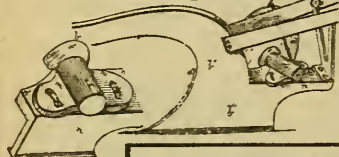
101,268, THEODORE HYATT.
ASBESTOS FILLING FOR FIRE-PROOF
SAFES AND OTHER STRUCTURES.



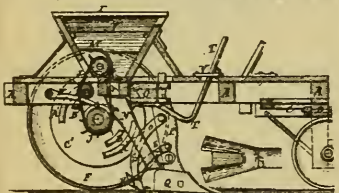
S. H. INGERSOLL. WOOD PAVEMENTS.



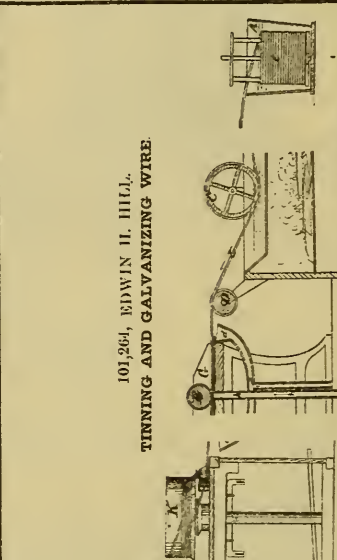
101,256, JOSEPH S. GODFREY.
FLOWS.



101,257, J. B. GODWIN. CORN-PLANTERS

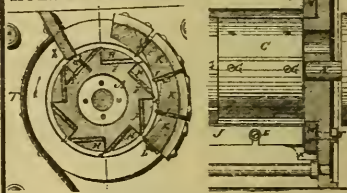


101,263, JAMES HENDERSON.
MANUFACTURE OF IRON AND STEEL.

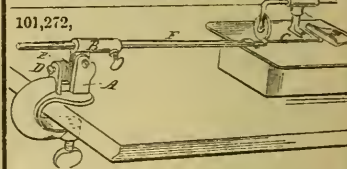


101,264, EDWIN H. HILL.
TINNING AND GALVANIZING WIRE.

101,271, DAVID KAHNWEILER.
HULLING-MACHINES.

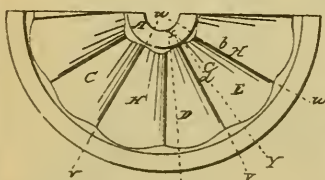


JAMES FRANKLIN KELLOGG.
TUCK-CREASING ATTACHMENT
FOR SEWING-MACHINE.

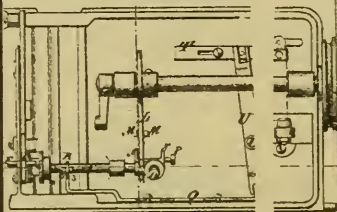


GEORGE B. GOODNOW.
SAWS.

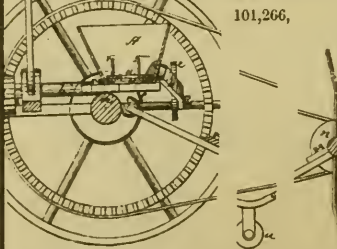
101,259, JEREMIAH D. GREEN.
WHEEL FOR RAILWAY CARS.



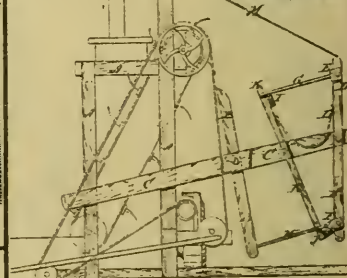
101,265, J. I. HIRSCHBUHL.
SEWING-MACHINES.



101,266, JONAS HOUSE.
COMBINED SEEDER AND HAY-TEDDER.



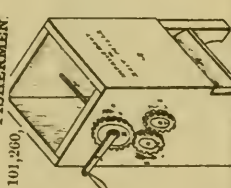
101,273, N. S. KETCHUM.
HARVESTER-DROPPERS.



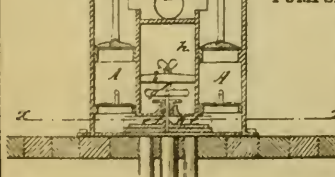
101,274, JOSEPH KING.
CHARLES S. GOULD. NECK-YOKES.



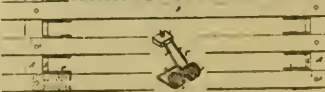
SILVANUS HAMBLIN.
BAIT MILL FOR
FISHERMEN.



101,261, EVERETT C. HAMMOND
PUMPS.



101,267, LIVERUS HULL.
IMPROVED SPRING-BED.

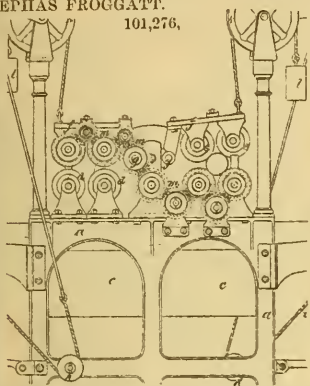


101,275, ROYAL G. KINNER.
WRAPPER FOR SEEDS.

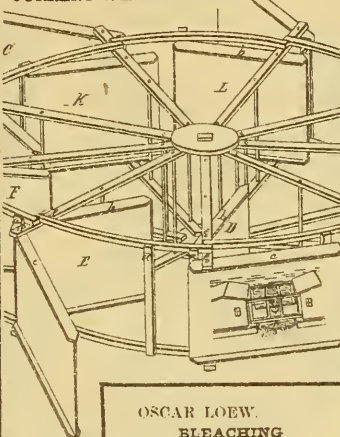


JAMES KIRK. MACHINES FOR FELTING.
SAMUEL SHELDERDINE. HAT-BODIES.
CEPHAS FROGGATT.

101,276,



101,282, WM. LIGHTFOOT.
CURRENT WATER-WHEELS.

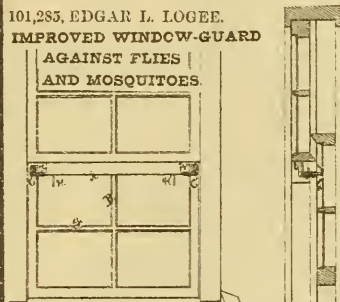


OSCAR LOEW.
BLEACHING

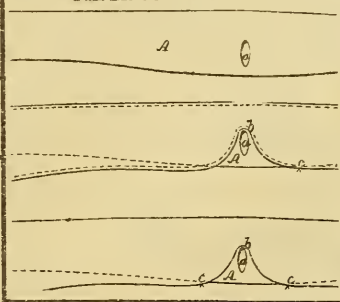
101,283. DARK SOAPS AND "FOOTS."

101,284. OSCAR LOEW.
BLEACHING AND REFINING OILS.

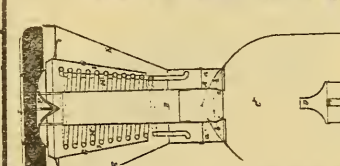
101,285, EDGAR L. LOGEE.
IMPROVED WINDOW-GUARD
AGAINST FLIES
AND MOSQUITOES.



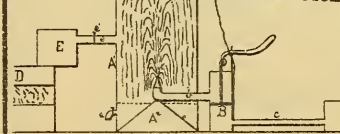
101,286, ED ELISHA MACK.
PAPER COLLARS.



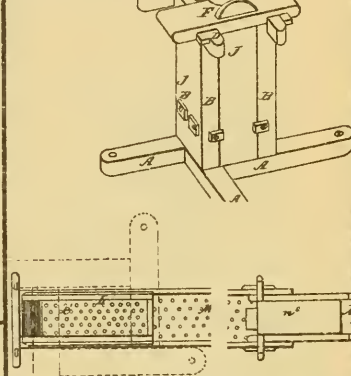
101,287, I. P. MAGOON. FEED-WATER
HEATER FOR LOCOMOTIVES.



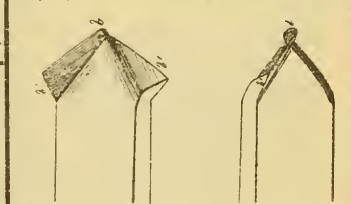
101,288, C. K. MARSHALL.
APPARATUS
FOR DEFECCATING
CANE-JUICE.



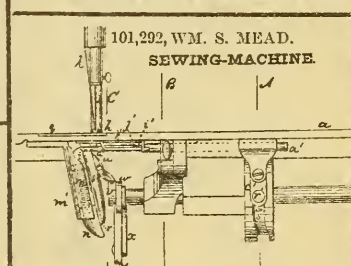
101,289, ROBT. H. MAYO.
APPARATUS FOR
SEPARATING THE
SEED FROM
FRUIT-PULP.



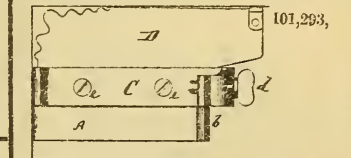
101,290, WM. D. McCLURE. STONE-DRILLS.



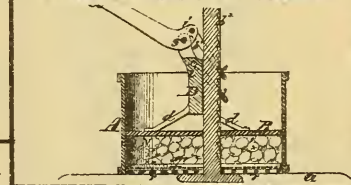
101,291, HUGH McDONALD.
MANUFACTURE OF CAST-STEEL.



MICHAEL MEANY.
JOHN MCGINNIS.
WILLIAM CUNNINGHAM.



101,294 W. D. MEDBERY.
PRESS AND STRAINER COMBINED.

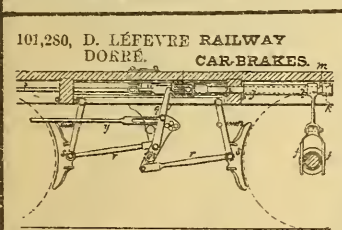


101,295, GEO. H. MELLEN.
CHILDREN'S
CARRIAGES.

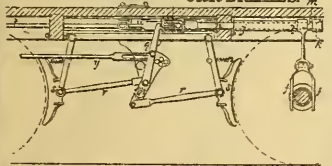


IMPROVED MEDICAL COMPOUND.

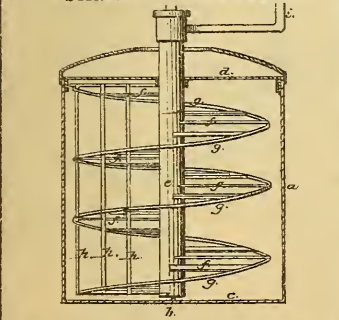
101,279 PHILESTER LEE.
LEMUEL MATTHEWS.



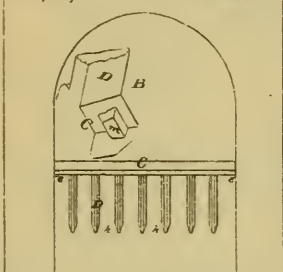
101,280, D. LEFEVRE RAILWAY
DORRE.



101,281. CHARLES LEHMANN. IMPROVED
STIRRER AND EGG-BEATER.

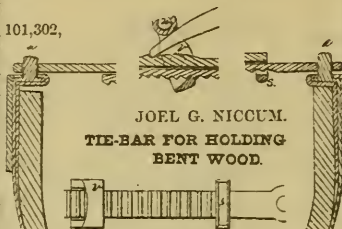


E. D. MERRICK. FIRE-PLACE
101,296, A GRATE.

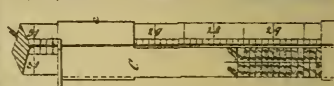


101,302,

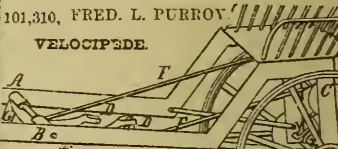
JOEL G. NICCUM.
TIE-BAR FOR HOLDING
BENT WOOD.



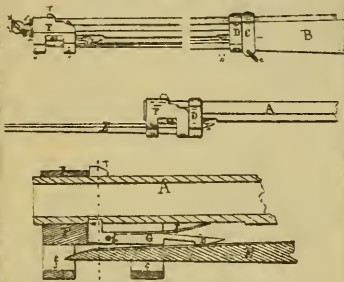
101,309, ELI S. PRIME. GAUGE-RODS.



101,310, FRED. L. PURROY.
VELOCIPÈDE.

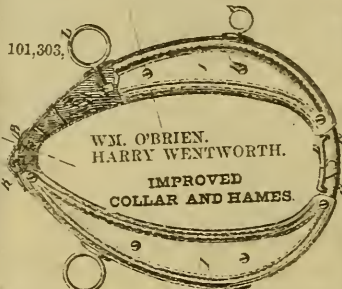


101,297, ANSON MILLS, BAYONETS.

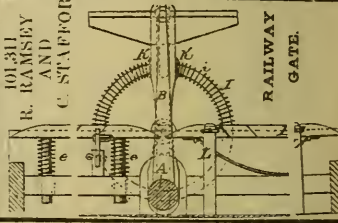


101,303,

WM. O'BRIEN.
HARRY WENTWORTH.
IMPROVED
COLLAR AND HAMES.

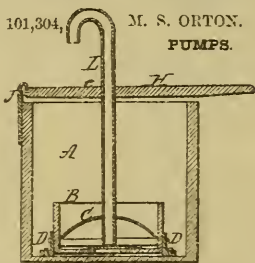


101,311
R. RAMSEY
AND
C. STAFFORD.
RAILWAY
GATE.



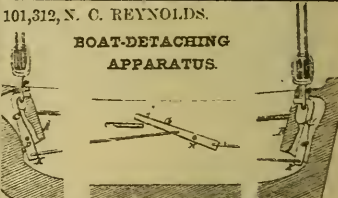
101,304,

M. S. ORTON.
PUMPS.

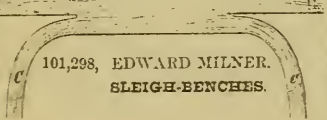


101,312, N. C. REYNOLDS.

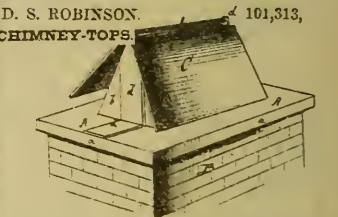
BOAT-DETACHING
APPARATUS.



101,298, EDWARD MILNER.
SLEIGH-BENCHES.



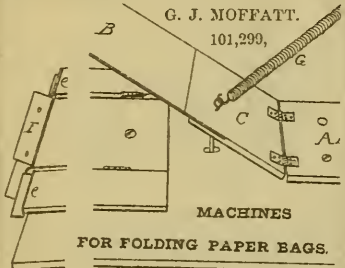
D. S. ROBINSON.
CHIMNEY-TOPS.



101,313,

G. J. MOFFATT.

101,299,



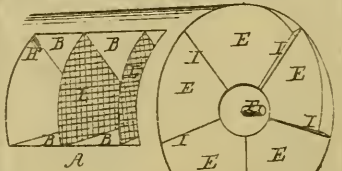
MACHINES
FOR FOLDING PAPER BAGS.

101,305, H. C. S. OTTO, DR.

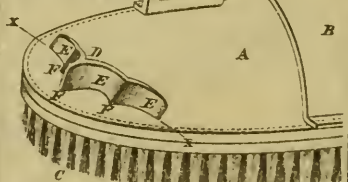
IMPROVED MEDICAL COMPOUND.

101,306, HENRY M. PAINE.

ROTARY HYDRO-PNEUMATIC PUMPS

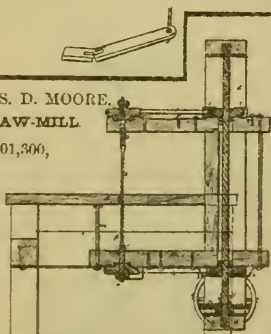


101,307, SAMUEL PEARSON.
ATTACHMENT
FOR BRUSHES.



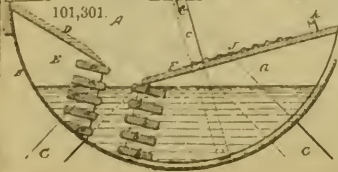
CHAS. D. MOORE.
SAW-MILL

101,300,



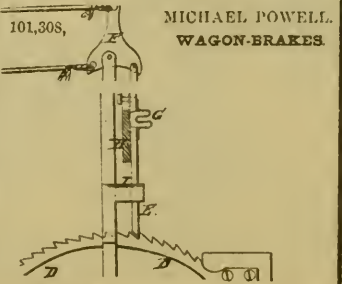
D. F. NEIKIRK. IMPROVED WASHING
JOHN J. KOCH. MACHINE

101,301,

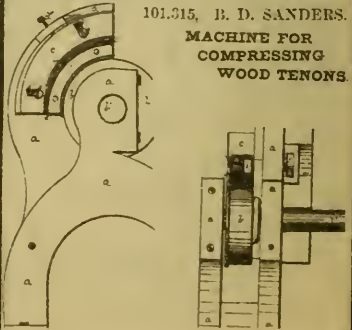


101,308,

MICHAEL POWELL.
WAGON-BRAKES.

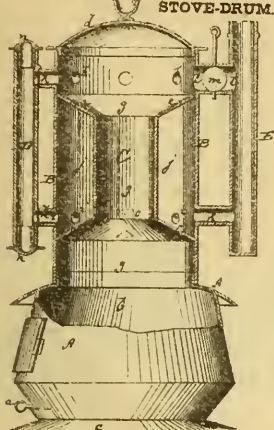


101,315, B. D. SANDERS.
MACHINE FOR
COMPRESSING
WOOD TENONS



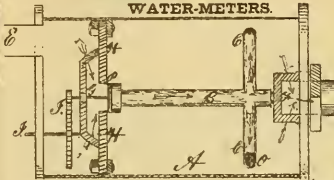
101,316, THOMAS SCANTLIN.

STOVE-DRUM.



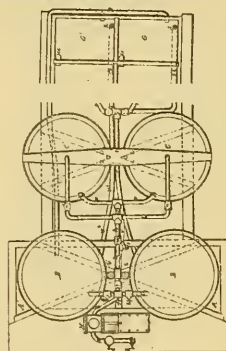
101,323, GEORGE W. SMITH.

WATER-METERS.



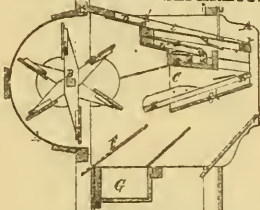
101,331, ZEBARD THOMPSON WHITE.

APPARATUS FOR TANNING HIDES.



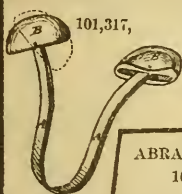
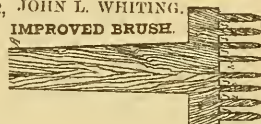
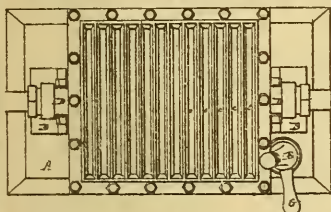
101,324, MYRON H. SMITH.

GRAIN-SEPARATORS.



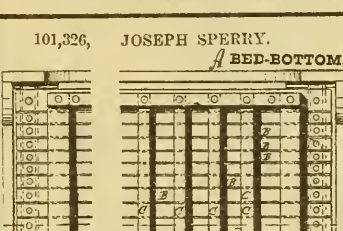
101,332, JOHN L. WHITING.

IMPROVED BRUSH.

101,317, CASPAR SCHMITT.
PESSARIES.ABRAHAM SCHOENBERG
101,318, MOLDS FOR
CASTING SOLDER, &c.

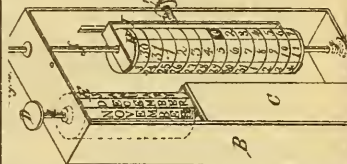
101,325, JACOB H. SMYER.

LUBRICATING COMPOUNDS



101,326, JOSEPH SPERRY.

BED-BOTTOM.

101,333, CHARLES H. WIGHT.
HAND-SETTING CALENDARS.

101,319, THEODORE SCHWARTZ.

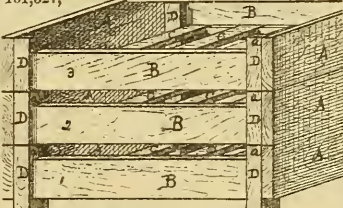
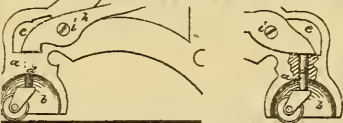
PROCESS OF OBTAINING
ACETIC ACID FROM WOOD.

101,320, THEODORE SCHWARTZ.

TREATING WOOD
TO OBTAIN USEFUL PRODUCTS.

SAMUEL SPRINGER.

101,327, IMPROVED BED-FRAME.

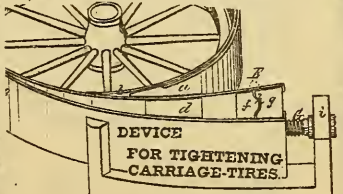
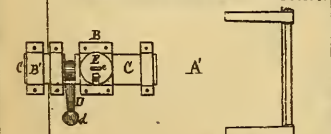
101,328, JOHN M. VEASEY. CASTERS
FOR SEWING-MACHINES.

101,329, JOHN L. WARREN.

OVAL-TURNING TOOL.



101,330, JONATHAN BURNS WEST.

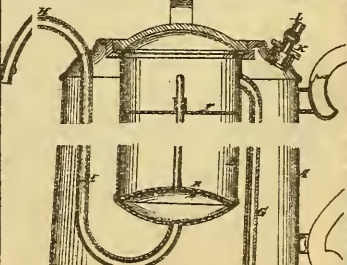
DEVICE
FOR TIGHTENING
CARRIAGE-TIRES.101,322, C. J. SMITH. BOLTS FOR
SAFETY-STOVES FOR CARS.

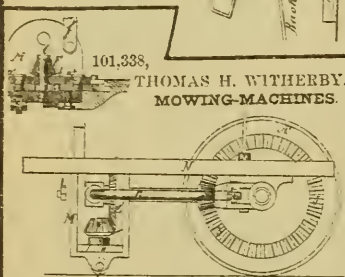
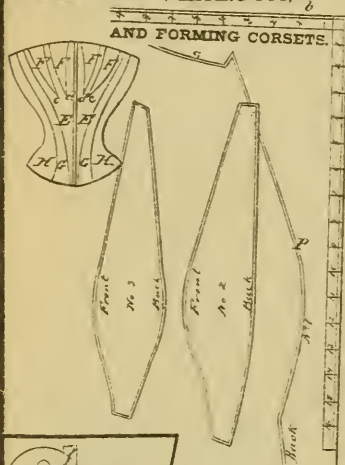
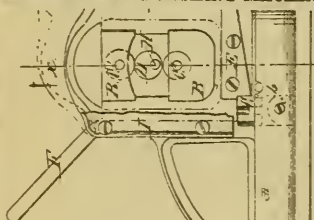
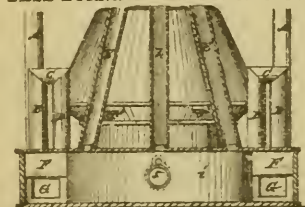
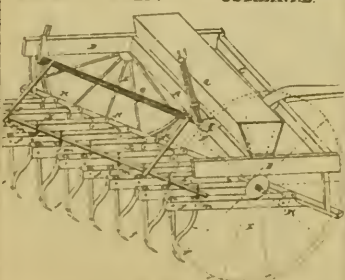
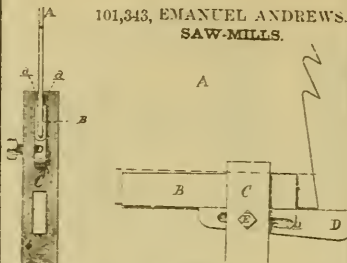
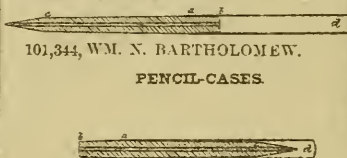
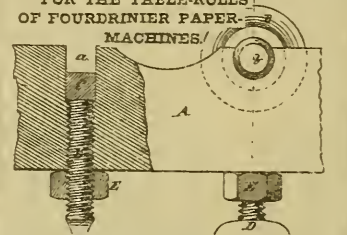
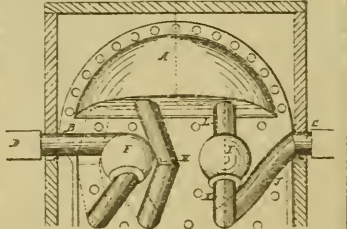
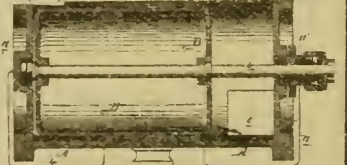
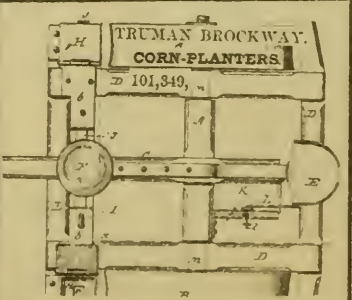
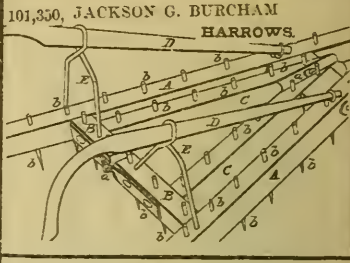
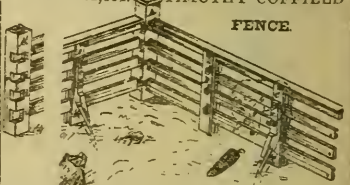
IMPROVED WASHING-MACHINE.

101,335, CALEB WILLIAMS.

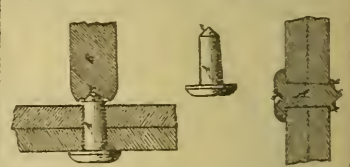
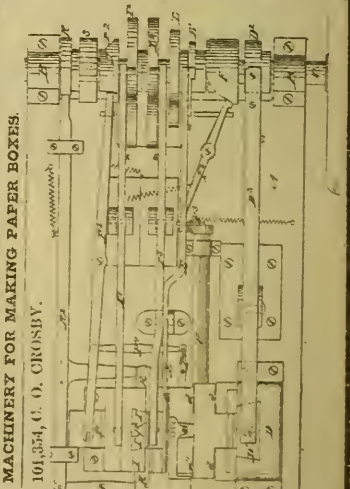
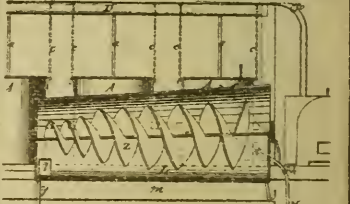
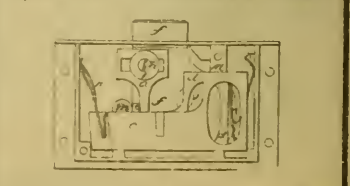


101,336, JOHN P. WILLIAMS. COFFEE-POT.



101,337, MOLLIE WILLIAMS. DEVICES
FOR MEASURING, LAYING OUT,101,339, THOMAS H. WITHERBY.
SHEARING AND PUNCHING-MACHINE.101,340, LOUIS WOLFF.
LINIMENT FOR BURNS, SCALDS, &c.101,341, WM. E. WOOD.
BASE BURNING FIRE-PLACE-STOVE.101,342, NELSON E. ALLEN.
ISRAEL B. RECORD. SEEDER
JAMES ROOD. AND CULTIVATOR
JASPER HAYDEN. COMBINED.101,343, EMANUEL ANDREWS.
SAW-MILLS.101,344, WM. N. BARTHOLOMEW.
PENCIL-CASES.101,345, GEO. S. BARTON THE BEARINGS
FOR THE TABLE-ROLLS
OF FOURDRINIER PAPER-
MACHINES.101,346, ALBERT BETTELEY.
WOOD PAVEMENTS.NATH. L. BLANCHARD.
101,347, WATER AND GAS-METERS.SAMUEL REEVE BRICK, EXHAUSTING
101,348, APPARATUS FOR GAS-WORKS.TRUMAN BROCKWAY.
CORN-PLANTERS101,350, JACKSON G. BURCHAM
HARROWS.101,351, TIMOTHY COFFIELD
FENCE.

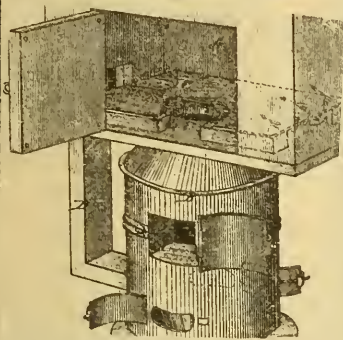
101,352, H. E. COPELEY. RIVETS.

101,353, JAS. E. COX. APPARATUS
FOR KEEPING PURE THE AIR IN
THE MANUFACTURE OF FERTILIZERS.101,354, C. O. CROSBY.
101,355, CHAS. C. DICKERMAN. LOCKS.

101,356,

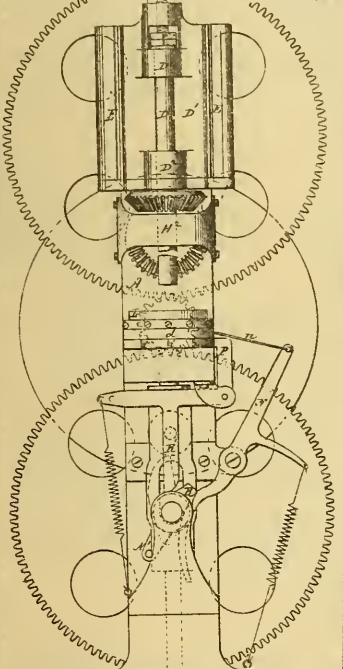
ELLIS DOTY.
H. RICHARDSON.MACHINE
FOR SHEARING METAL

101,357, McCANN DUNN. OVEN.



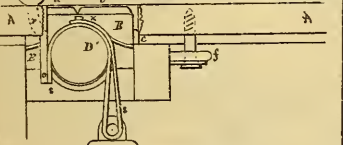
101,358, JOHN C. FORD.

PLUMBAGO-PRESS.



101,359, C. T. FORREST.

WATER-CLOSET VALVES.

101,360, WILLIAM H. FORTNEY.
WILLIAM E. SHEAFFER.

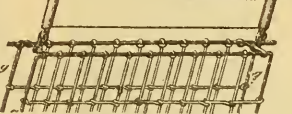
SHOE-FASTENINGS.



101,361,

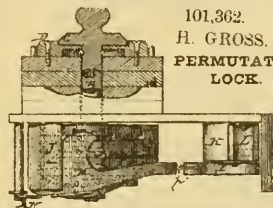
ANN L. H. GRAHAM.

BROILER.



101,362.

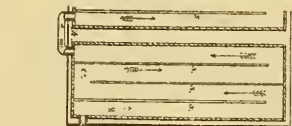
H. GROSS.

PERMUTATION
LOCK.

101,363, THOS. HALL.

IMPROVED COVER FOR
SEWING-MACHINES.101,364 SAMUEL A. HILL.
CHAS. F. THUMM.

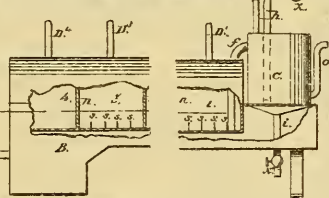
STILLS FOR HYDROCARBONS.



101,365, CHAS. F. THUMM.

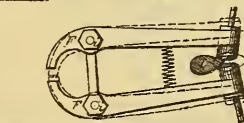
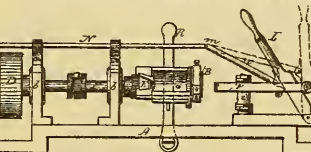
SAMUEL A. HILL.

STILLS FOR HYDROCARBONS



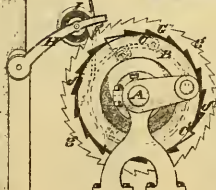
101,366, MERRIT HINE.

MACHINE FOR THREADING BOLTS.



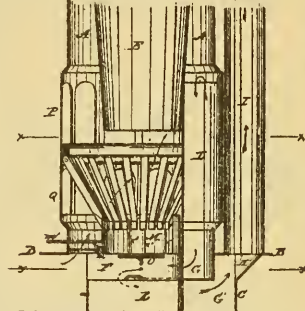
101,367, GEORGE JOHNSON.

HOISTING-MACHINE.



101,368, WILLIAM J. KEEP.

BASE-BURNING STOVE.

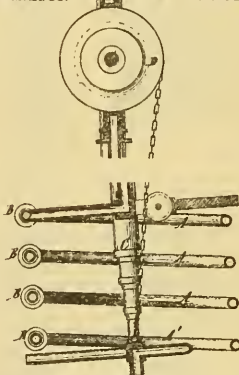


101,369,

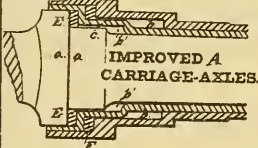
HENRY KRÜGER.

EXTENSION

GAS-FIXTURES.

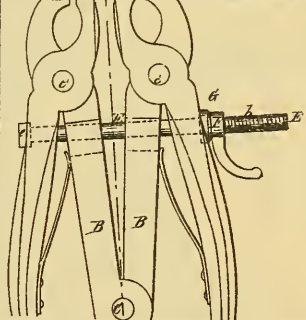


101,370, F. G. A. LLOYD.

IMPROVED A
CARRIAGE-AXLES.

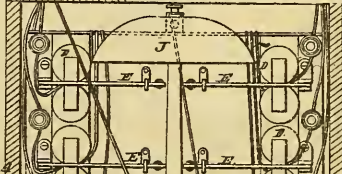
101,371, W. L. MAUND. IMPROVED

DOUBLE PINCERS.



101,372, WM. N. McINNIS.

ELECTRO-MAGNETIC ANNUNCIATORS.

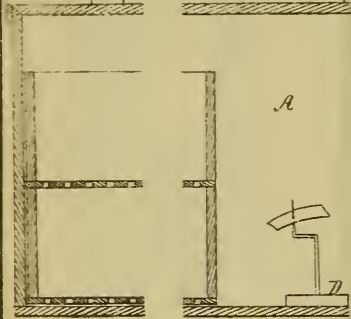


101,373 D. M. MEFFERD.

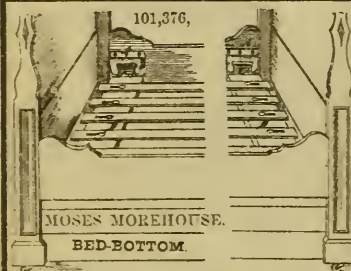
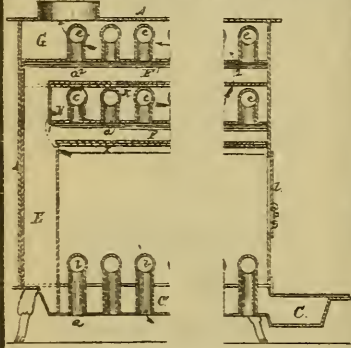
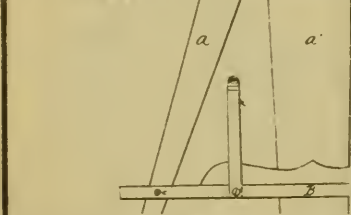
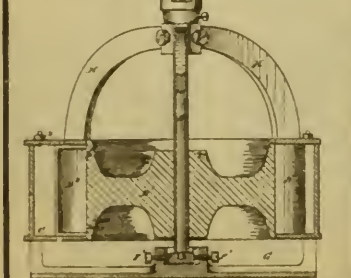
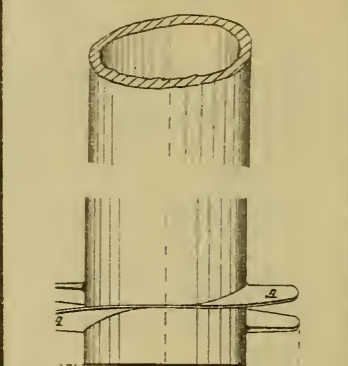
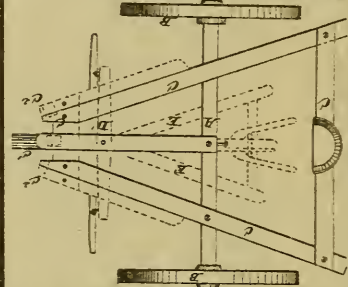
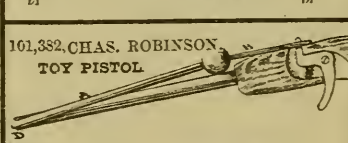
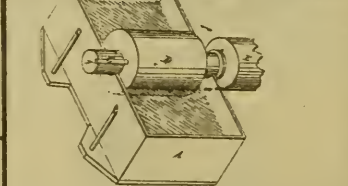
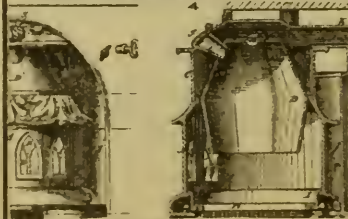
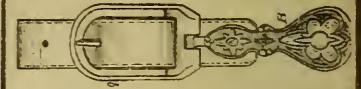
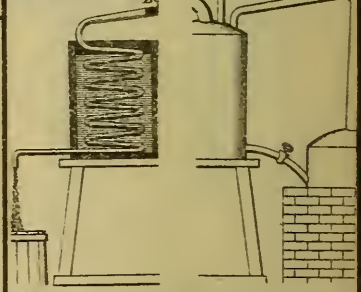
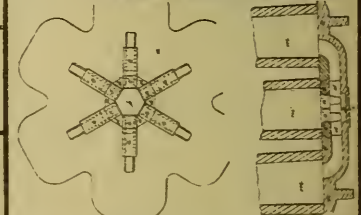
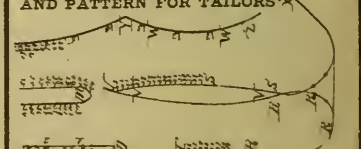
PRESERVING VEGETABLES,
FRUITS, &c.

THOMAS A. MITCHELL. CARPET-TACKS.

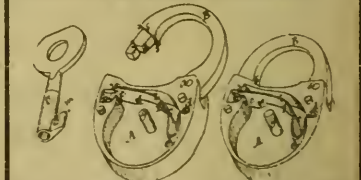
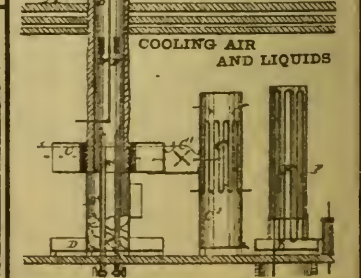
101,374.



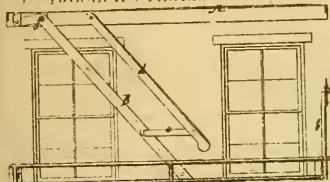
101,375, JAMES MOORE. HEATING-STOVE.

GEO. MUNGER, 101,377,
JAMES W. SCHERMERHORN.
EASELS.101,378. TURBINE WATER-WHEELS.
J. R. PARK.101,379, CHAS. H. PARKER.
SCREW-PIILING.101,380, C. L. REID. CONVERTIBLE
FLOW AND CULTIVATOR.101,381, M. RICHARDSON.
CIGAR-BOX.101,382, CHAS. ROBINSON.
TOY PISTOL.101,383, J. F. SARGENT.
TRAVELING-CAPS.MODE OF LUBRICATING AXLES.
101,384. ENOCH SAWYER.101,385, SAMUEL B. SEXTON.
BASE-BURNING FIRE-PLACE STOVE.101,386, SEVERIN SIEBOLD.
GAG-RUNNER AND BUCKLE.101,387, SEVERIN SIEBOLD.
TERRET LINING.101,388, HENRY B. SINKS.
DISTILLATION.101,389, FRED. J. SLADE.
CASTING INGOTS IN GROUPS.101,390, WILLIAM E. SMITH.
GRADUATED RULE
AND PATTERN FOR TAILORS.

101,391, DANIEL SNELL. PADLOCKS.

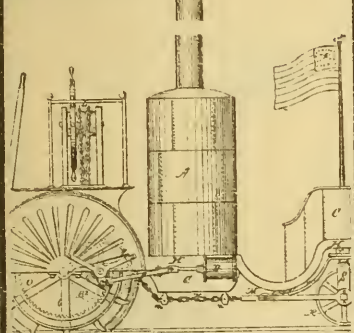
101,392, D. E. SOMES.
COOLING AIR
AND LIQUIDS

101,393, JOSEPH STEGER. FIRE-ESCAPE



101,391 C. A. STEVENS. PACKING JOURNALS, AND OTHER PARTS OF MACHINERY

101,395, AUGUSTIN L. TAVEAU. STEAM-PLOWS.



101,396, ALPHEUS WALKER. TROWELS.



101,397.

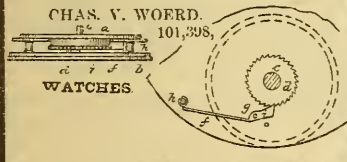
CHARLES G. WELLS. SAWING-MACHINES.



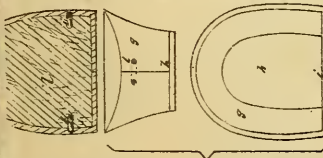
CHAS. V. WOERD.

101,398.

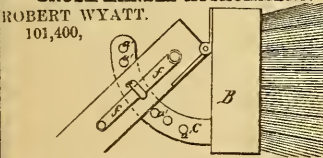
WATCHES



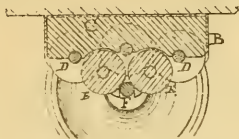
101,399, JOSEPH WOODLEY. BOOT AND SHOE-HEELS.



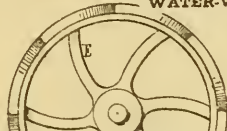
BRUSH-HANDLE ATTACHMENT. ROBERT WYATT. 101,400,



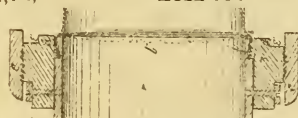
101,401, PIERCE W. VARRELL. ANTI-FRICTION JOURNALS.



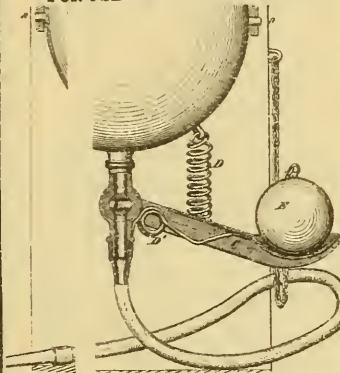
101,402, PIERCE W. VARRELL. WATER-WHEELS.



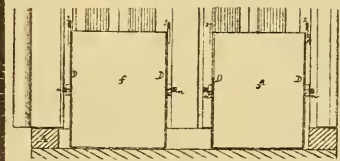
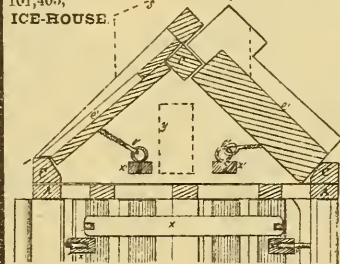
CHARLES H. CUSHMAN. 101,403. HOSE-COUPINGS.



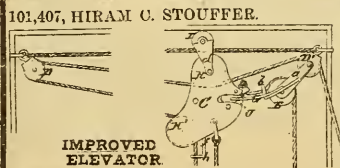
H. C. STEWART. R. T. BRADLEY 101,404. AUTOMATIC FIRE-EXTINGUISHER FOR USE ON RAILROAD CARS, &c.



WILLIAM VELTE. JOHN FAGAN. 101,405. ICE-HOUSE

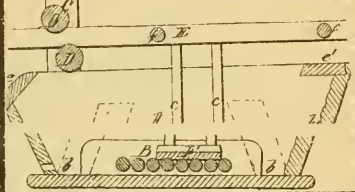


101,406, C. HART SMITH. PROCESS OF PREPARING PAPER FOR ROOFING AND SIMILAR PURPOSES.

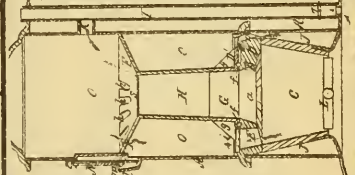


IMPROVED ELEVATOR

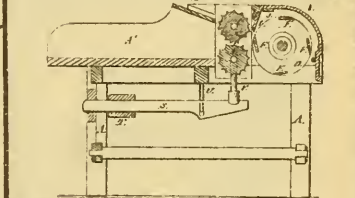
101,408, WILLIAM H. ROACH. WASHING-MACHINE



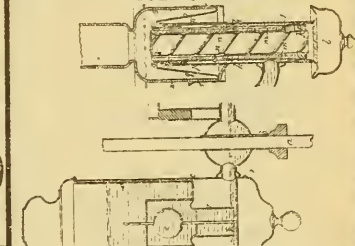
3,897, HENRY C. GILES. COAL-STOVE



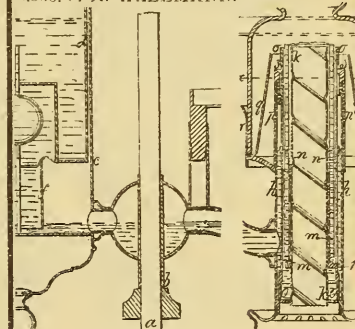
3,898 JAMES PALMER. STRAW-CUTTERS



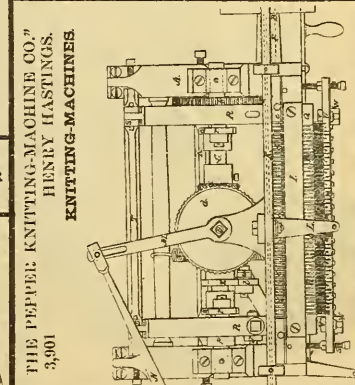
JAMES WILSON 3,899. CHARLES F. MUDGE. PUMP-PISTONS.



3,900, C. A. KLEEMANN. LAMP.



THE PEPPER KNITTING-MACHINE CO.'S HENRY HASTINGS. KNITTING-MACHINES. 3,901

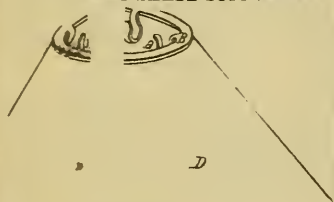


ILLUSTRATIONS OF PATENTS

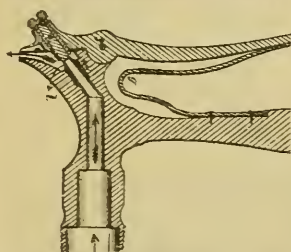
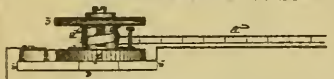
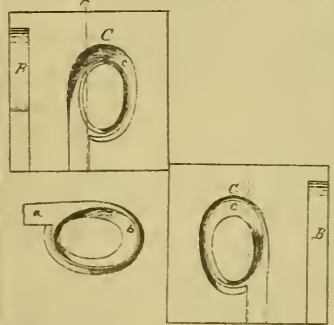
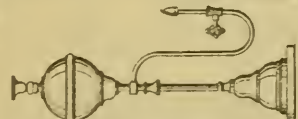
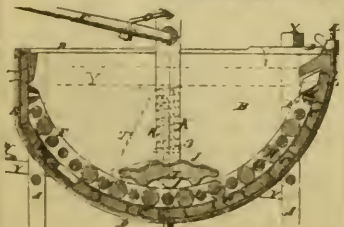
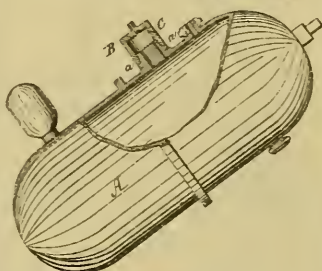
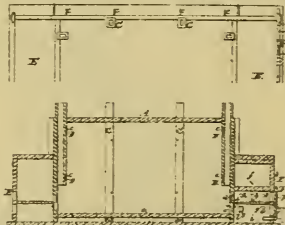
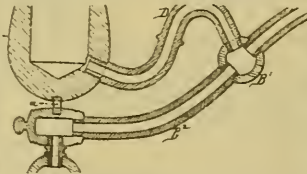
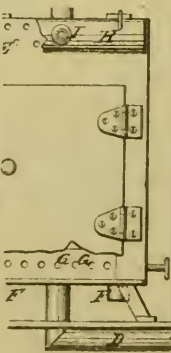
ISSUED FROM

THE UNITED STATES PATENT OFFICE

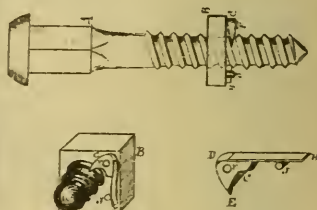
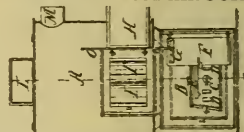
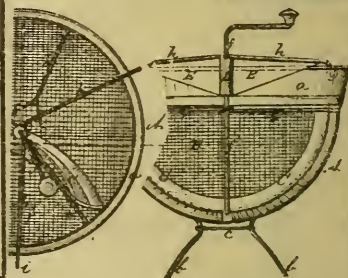
APRIL 5. 1870.

101,409, J. B. ALEXANDER.
LAMP-SHADE SUPPORTERS.

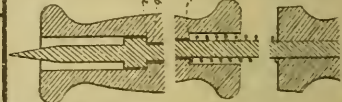
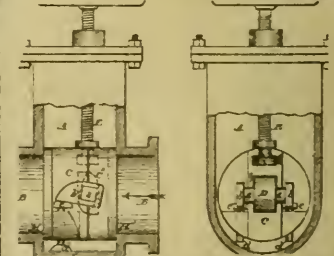
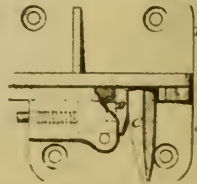
101,410, JOHN ASHCROFT. FAUCETS.

101,411, RICHARD MEADE BACHE.
ELASTIC GRADUATED SCALE.101,412, ALBERT R. BAILEY.
DIES FOR FORGING SHEAR-BOWS.101,413, S. D. BALDWIN.
VAPOR BURNERS.101,414, JOSEPH BALSLEY.
WASHING-MACHINE.101,415, BENJAMIN BATES
APPARATUS FOR GENERATING
CARBONIC ACID101,416, OLIVER BENNETT.
BRICK-KILNS101,417, ZELOTES R. BENNETT.
TOBACCO-PIPES.101,418, H. BERDAN.
BREECH-LOADING FIRE-ARMS.101,419,
CHAS. H. BERRY.
CHAMBER-VESEL.101,420,
H. BESSE.
HEATING-STOVE

101,421, A. G. BINNS. IN LOCK-NUT

101,422, LANSING BONNELL.
HOT-AIR FURNACE.101,423, ALONZO T. BOON.
LUCIEN MILLS.
FLOUR-SIFTER, COLANDER
AND STRAINER

101,424, EDWARD BROWN. ICE-PICK.

101,425, SILAS H. BROWN.
STOP-VALVES101,426, THOS. S. BROWN.
FLASK-GUIDES

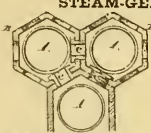
101,427, GEORGE CADE.

LAMP-WICK FEEDERS.



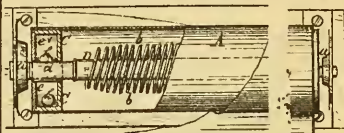
101,434, JONATHAN M. CLARK.

STEAM-GENERATORS.



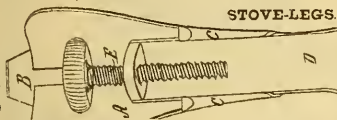
101,440, DAVID WM. DE FOREST.

WINDOW-SHADE FIXTURE.



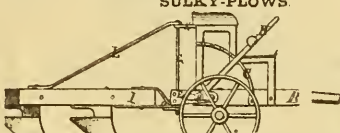
101,428, EDWARD CARD.

STOVE-LEGS.



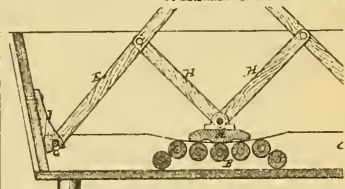
101,435, JOHN H. COLE.

SULKY-PLOWS.



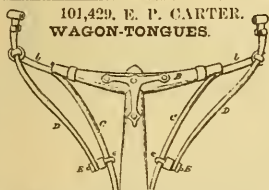
101,441, JOHN K. DERBY.

WASHING-MACHINE.

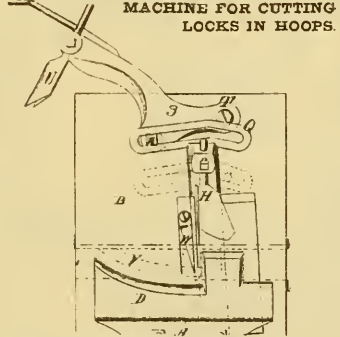


101,429, E. P. CARTER.

WAGON-TONGUES.



101,436, THEODORE CONKLIN.

MACHINE FOR CUTTING
LOCKS IN HOOPS.

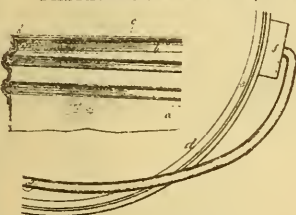
101,442, CHARLES E. DONNELLAN.

TAPE-LINE BOXES.



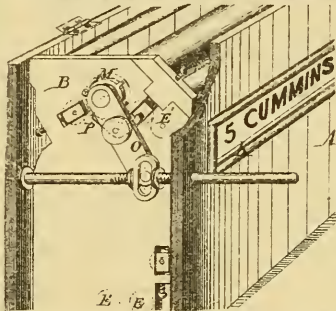
101,430, JOHN K. CHACE.

FASTENINGS FOR PAILS, CANS.



101,437, EDW. CONLEY.

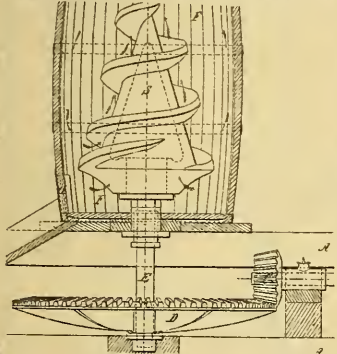
RAILROAD-STATION INDICATOR.



101,431, EDWIN CHAMBERS.

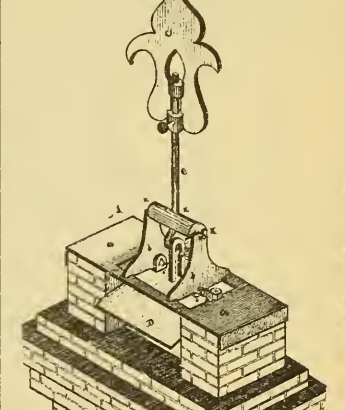
CYRUS CHAMBERS.

MACHINES FOR GRINDING SCREWS.



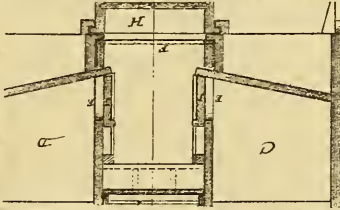
101,443, NATHAN DOUGLAS.

CHIMNEY-COWL.



101,438, JOHN M. DASHIELL.

FLOUR AND MEAL-CHEST.



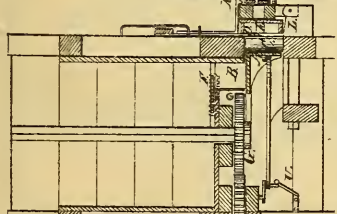
101,444, O. L. DOW.

BUTTER-WORKER.

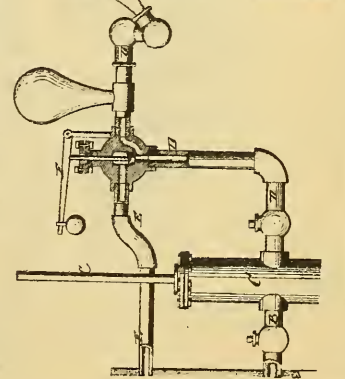


101,432, F. L. CLARKE.

BRICK-MACHINES.

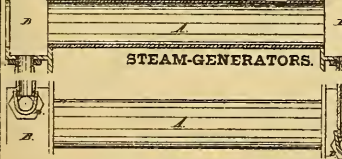


101,445,

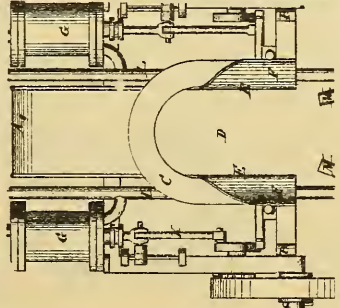
WILLIAM EATON.
BENN AINSWORTH.
GEORGE W. SCOTT.
HYDRAULIC ENGINES.

101,433, JONATHAN M. CLARK.

STEAM-GENERATORS.

101,439, JAMES DAVIS, JR.
DAVID SCOTT, JR.

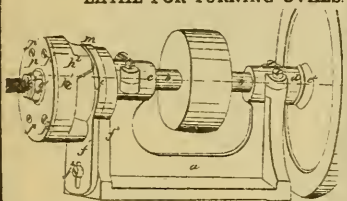
COTTON-HARVESTERS.



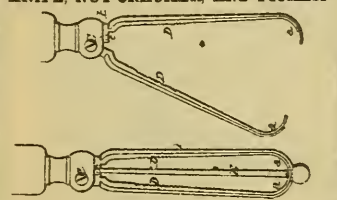
101,446, J. L. ECK.
RUFFLING-ATTACHMENT FOR
SEWING-MACHINE.



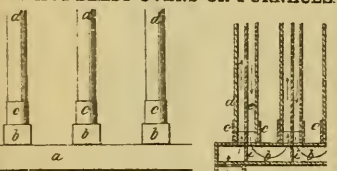
101,447, R. EICKEMEYER.
LATHE FOR TURNING OVALS.



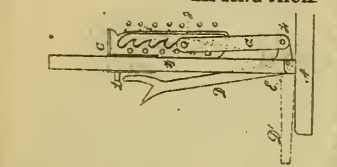
101,448, GEORGE A. FAIRFIELD.
KNIFE, NUT-CRACKER, AND PICKER.



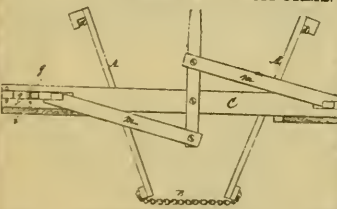
101,449, E. M. FERGUSON.
IN HOT-BLAST OVENS OR FURNACES.



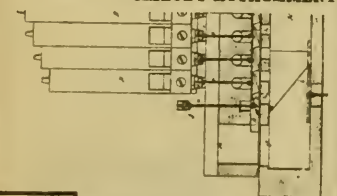
101,450, LEVI W. FIFIELD.
LIFTING-JACK



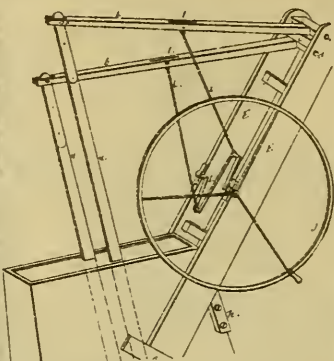
101,451, R. M. FISH.
DUMPING-PLATFORMS.



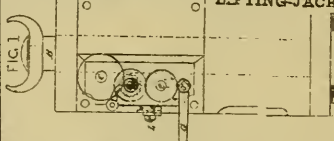
101,452, CARL FOGELBERG.
MELODY-ATTACHMENT.



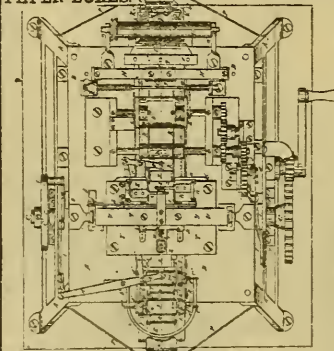
101,453,
ALBION W. FOSTER.
CHURNS.



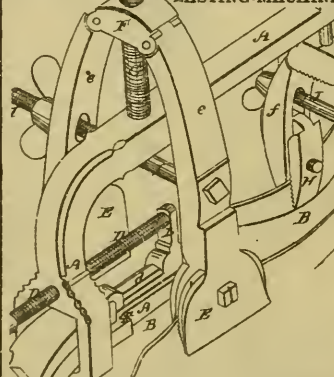
101,454, LEON PAUL GARCIN.
LIFTING-JACK



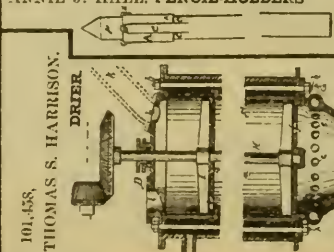
101,455, FREDK GATES.
MACHINERY FOR MAKING
PAPER BOXES.



101,456,
KARL GRASSAU.
LASTING-MACHINE.

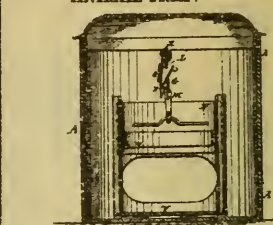


101,457,
ANNIE J. HALL. PENCIL-HOLDERS



101,458,
THOMAS S. HARRISON.
DRIER

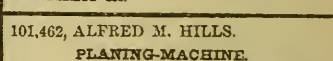
101,459, EDER E. HAUGHWOUT.
ANIMAL-TRAP.



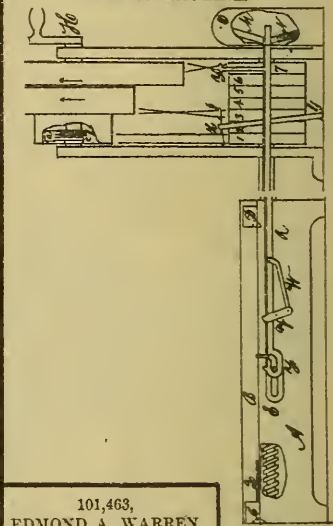
101,460, IRA A. HEBBARD.
HARVESTER-CUTTERS.



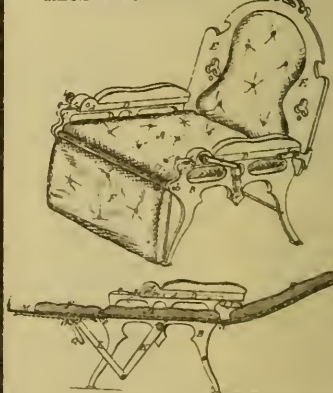
101,461, J. HEROLD. WATER PROOF
COMPOSITION FOR HARNESS,
LEATHER, &c.



101,462, ALFRED M. HILLS.
PLANTING-MACHINE.



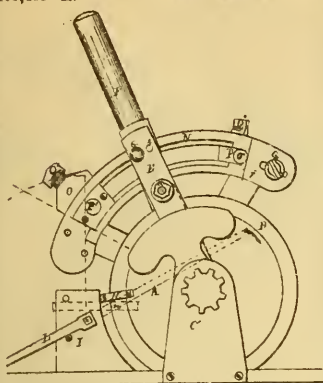
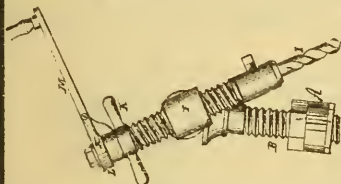
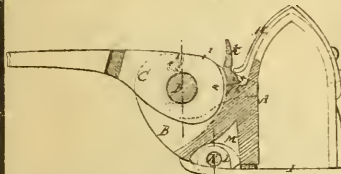
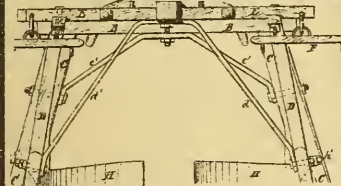
101,463,
EDMOND A. WARREN.
WILLIAM C. HORNFAGER.
RECLINING-CHAIR.



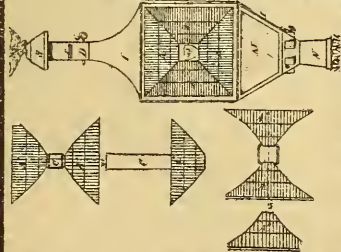
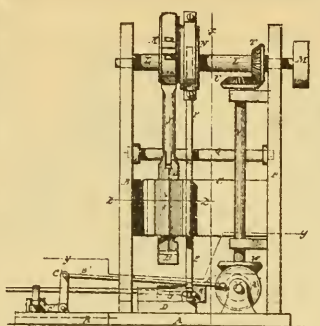
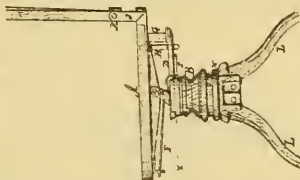
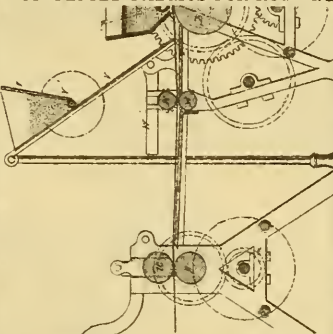
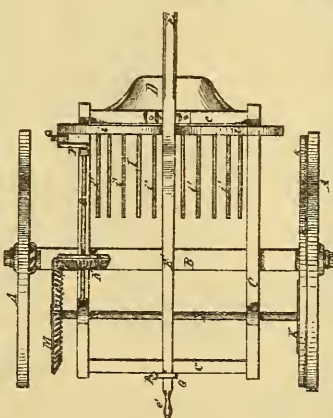
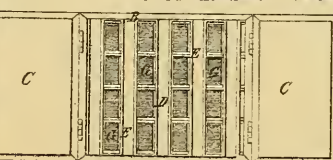
101,464, ELIAS H. HULL.
CANNON-FINION FOR WATCHES.



101,465 E. H. HULL. SAW-MILLS.

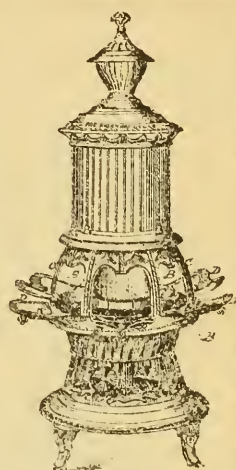
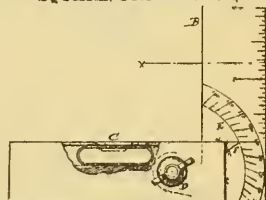
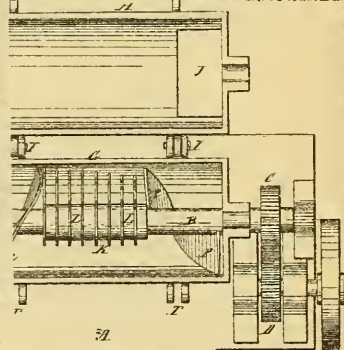
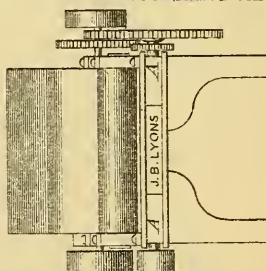
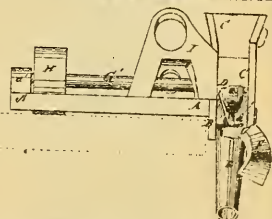
101,466, J. A. E. HUNTER.
HAND DRILLING-MACHINE.LEONARD A. JOHNSON.
101,467, CARRIAGE-CLIP.101,468, BENJAMIN JOHNSTON.
FINISHING-CULTIVATOR.

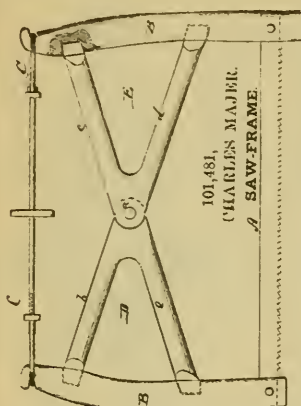
101,469, C. C. JONES. WELL-POINTS.

101,470, ABRAHAM KEEFER GRIM.
AUSTIN D. MOORE.
REFLECTORS FOR STREETS.101,471, C. W. KENNEDY.
STAPLE MACHINE101,472, WM. B. KIMBALL.
FOLDING CONVERTIBLE CHAIR101,473, SAMUEL KINGAN,
MACHINES FOR THE MANUFACTURE
OF FELTED FABRICS FOR ROOFING.101,474, MELVIN W. KNOX.
POTATO-DIGGERS.101,475, GEO. D. LEONARD.
COUNTER SHOW-CASE.

101,476, D. G. LITTLEFIELD.

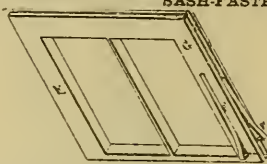
BASE BURNING STOVE

101,477, J. A. LITTLEFIELD. COMBINED
SQUARE. PROTRACTOR, LEVEL.101,478, CHARLES LUXTON.
PEAT-MACHINES.101,479, JAS. B. LYONS. MACHINE FOR
SCOURING AND BURNISHING METALS.101,480, J. T. MACOMBER.
HAND SEED-PLANTER.

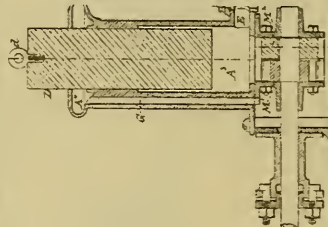


101,481,
CHARLES MAJHEL.
SAW-FRAME.

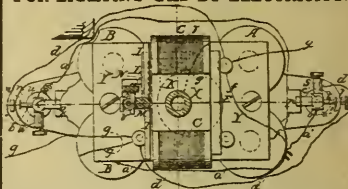
101,486, JOHN S. McGLUMPHY.
SASH-FASTENER.



101,487, H. D. McMASTER.
ABRAHAM DALE
GOVERNOR FOR STEAM-ENGINE.



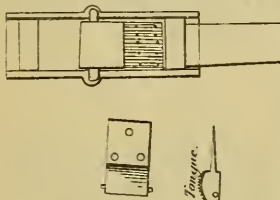
101,491, WALTER J. MORRIS.
WM. J. REID.
APPARATUS
FOR LIGHTING GAS BY ELECTRICITY.



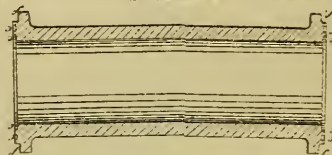
101,492, L. MORRISON SAW-HANGING.
A. G. HARMS.



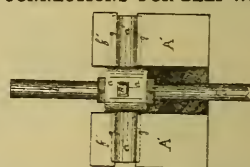
101,482, MATTHIAS MARVIN.
SELF-TIGHTENING BUCKLE.



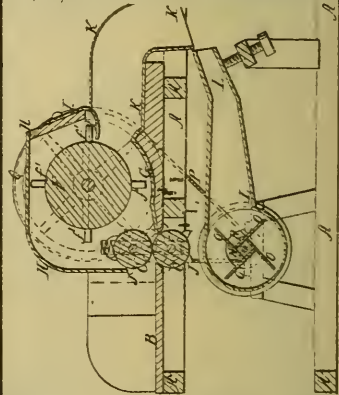
101,488, WILLIAM MENDHAM.
STEAM-HEATING PIPES.



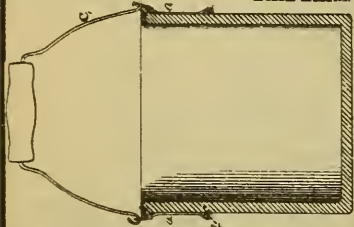
101,493, MARCELLUS A. MORSE.
WALKING-BEAM AND SUCKER-ROD
CONNECTIONS FOR DEEP WELLS.



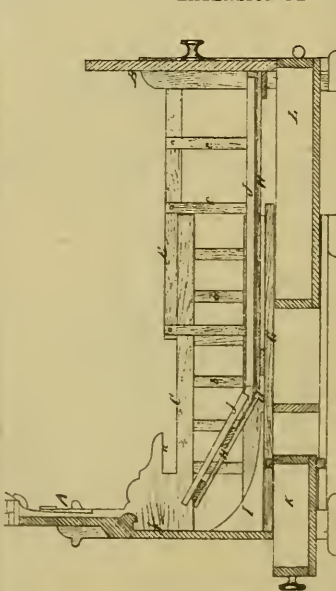
101,494, MYRON MOSES. HOP-PICKER.



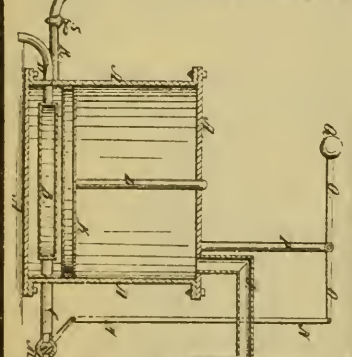
101,483, WILLIAM D. MASON.
ARTHUR T. RICE. BAIL-EARS.



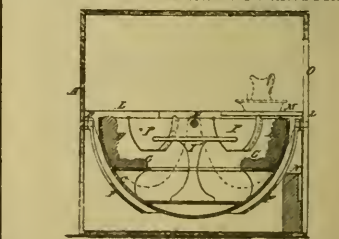
101,489, FREDR. K. MENZER.
EXTENSION BED.



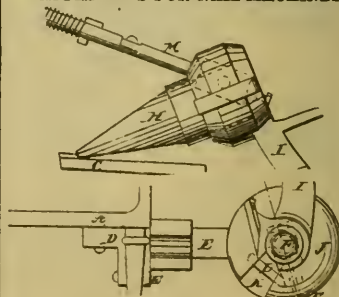
101,484, MORTON S. McATEE.
WATER-ELEVATOR.



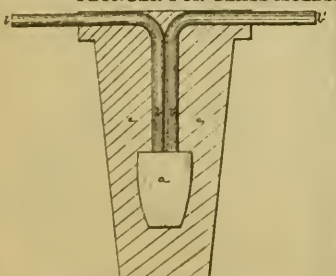
101,495, LORENZO D. NEWELL.
MARINE FURNITURE.



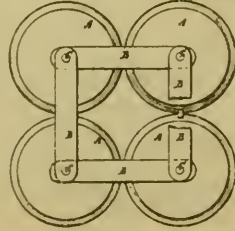
101,496, JAMES NOLAN. FEEDING
APPARATUS FOR NAIL-MACHINES.

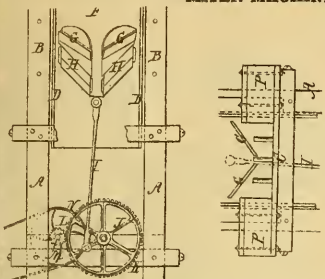
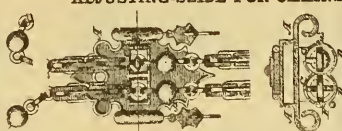
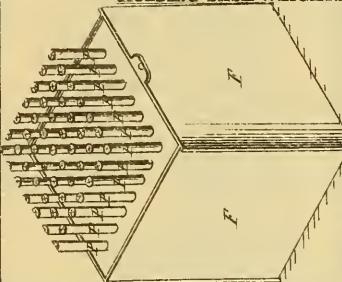
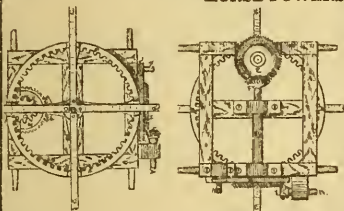
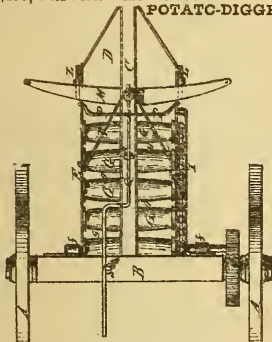
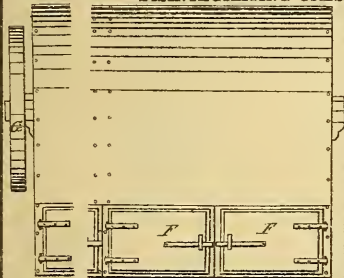
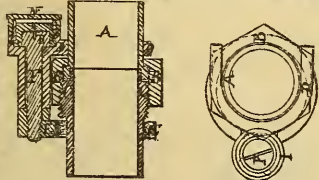
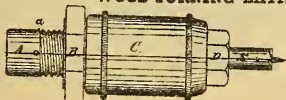


101,485, JOHN McCORD.
PLUNGER FOR GLASS-MOLDS.

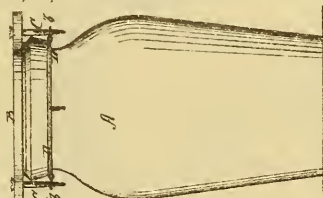
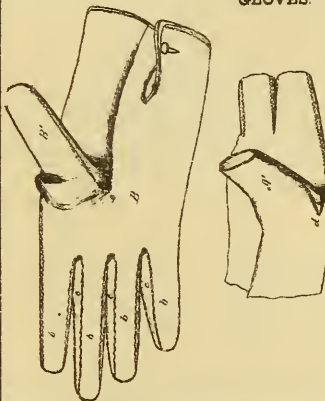
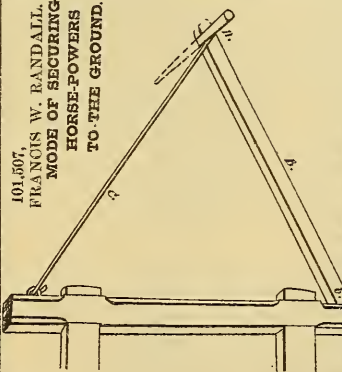
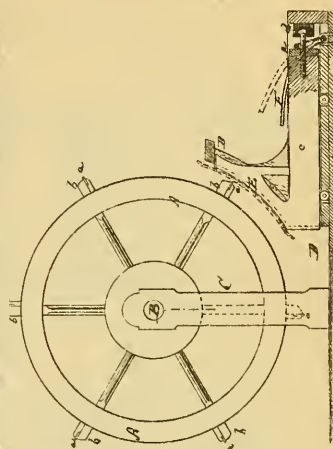
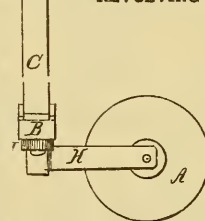
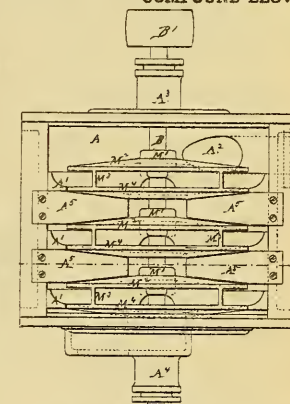
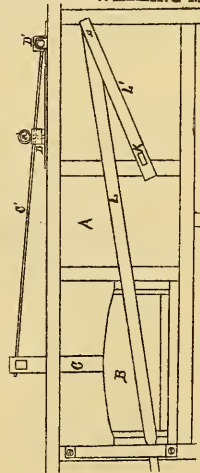


101,490, JNO. C. MILLIGAN.
BISCUIT-PAN.



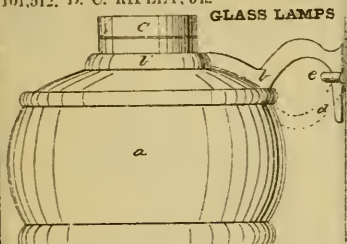
101,497, JOHN NONNENBACHER.
MITER MACHINE.101,503, ROBT. JAS. POND.
ADJUSTING-SLIDE FOR CHAINS.101,504 W. W. PULLIS.
MOLDING SASH-WEIGHTS.101,498, GEORGE OERLEIN.
HORSE-POWERS.101,499, OLIVER PATTERSON.
POTATC-DIGGERS.101,500, ALMARIN B. PAUL.
APPARATUS FOR
DISINTEGRATING ORES.101,501, CHARLES PERKES.
SEALING-APPARATUS
FOR PIPE-JOINT COUPLINGS.101,502, OLIVER H. PERRY.
WOOD-TURNING LATHES.

101,505, T. C. PURDY. FRUIT-JARS.

101,506, JOHN H. PUTMAN.
GLOVES.101,507, FRANCIS W. RANDALL.
MODE OF SECURING
HORSE-POWERS
TO THE GROUND.101,508, ARCHIBALD W. REID.
MACHINES FOR SCOURING
AND SETTING OUT LEATHER.101,509 MERRITT RICHARDS.
REVOLVING FLOW-COLTER.101,510, A. K. RIDER.
COMPOUND BLOWERS.101,511, WM. RILEY.
WASHING-MACHINE.

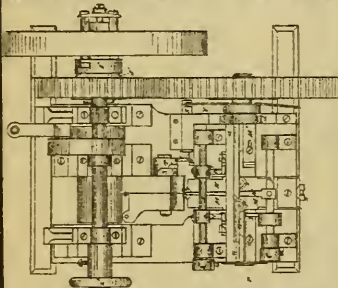
101,512, D. C. RIPLEY, JR.

GLASS LAMPS



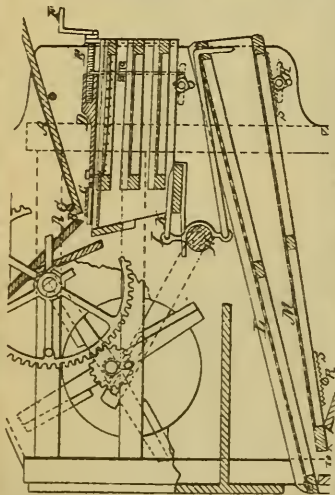
101,513, L. D. ROBERTS.

MACHINE FOR MAKING HORSESHOES.



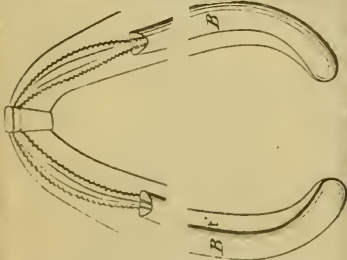
101,514, J. L. RUNK. FANNING-MILLS.

B. H. THARP.

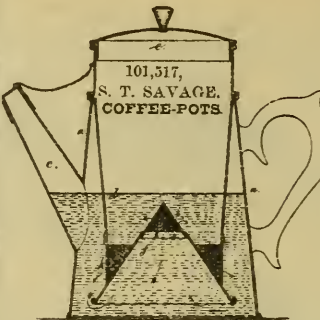
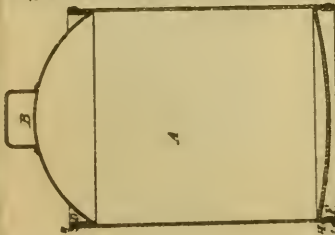
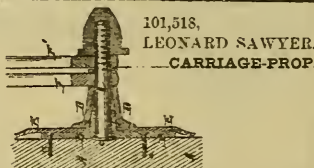


101,515, HENRY SANDERS.

HORSE-COLLAR



101,516, HUGH SANGSTER TIN PAILS.

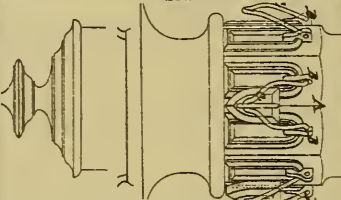
101,517,
S. T. SAVAGE.
COFFEE-POTS

101,518,

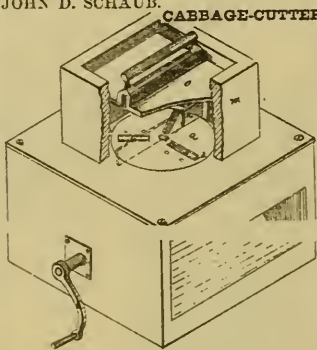
LEONARD SAWYER.
CARRIAGE-PROP.

101,519, WILLIAM SCARLETT.

SAD-IRON HEATERS.

101,520,
JOHN D. SCHAUB.

CABBAGE-CUTTERS.

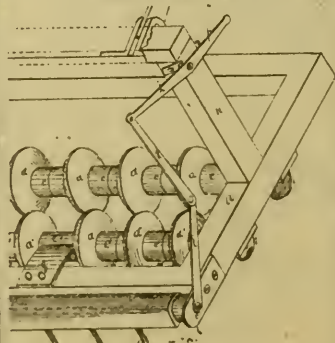


101,521, FRANCIS SCHERR.

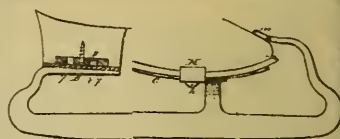
CARRIAGE-AXLES.

101,522, JOHN SCHROEFFEL.
WILLIAM DELL.

HARROW AND EARTH-CUTTER.

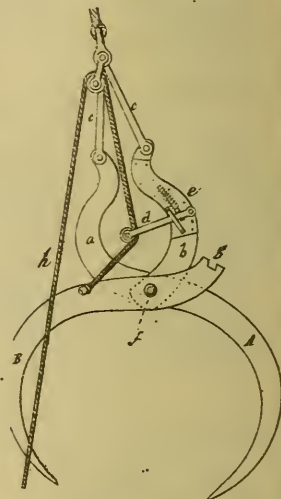


101,523, GEO. V. SCOBEE, SKATES.



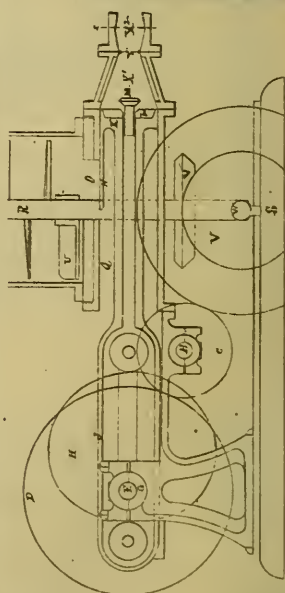
101,524, E. U. SCOVILLE.

HORSE HAY-FORKS.



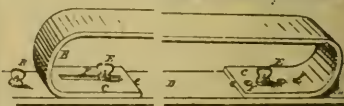
101,525, GEORGE SCOTT.

BRICK AND TILE-MACHINES.



101,526, D. N. SELLIG.

SPRING-BED BOTTOM.



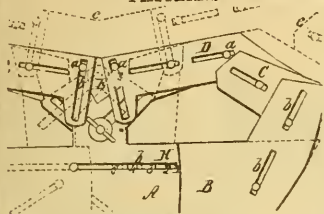
101,527, JAMES E. SHARP.

ELEAZER AINSWORTH.

FREDERICK A. SABBATON.

COVERING FOR STEAM-BOILERS.

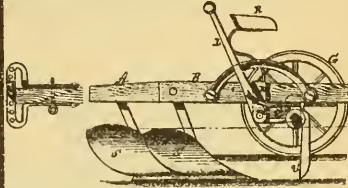
101,528, E. SHOBELL.
PATTERNS FOR SHOES.



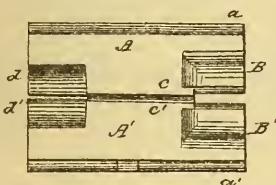
101,533, THOS. SOMERVILLE FAUCETS.



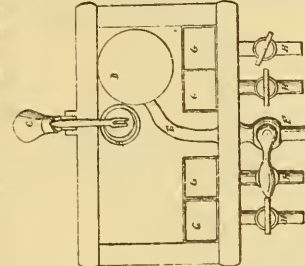
101,539, J. W. SURSA. GANG-PLOWS



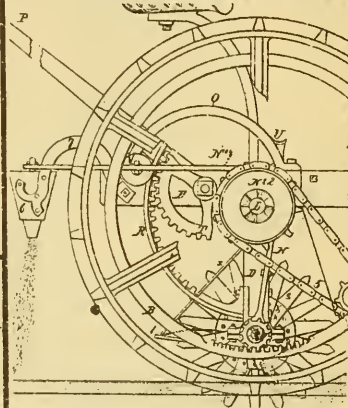
101,529, FREDK. J. SMITH.
DIE FOR MAKING CHORD-BAR HEADS



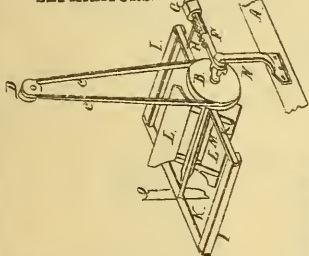
101,534, S. B. SPRING SODA-FOUNTAINS



101,540, AUGUSTIN L. TAVEAU.
REVOLVING SULKY-HARROW
AND SEEDER COMBINED



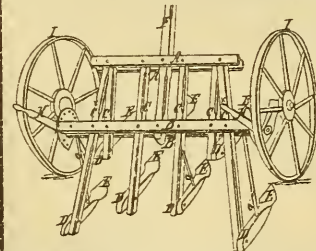
101,530, BENJAMIN H. SNAVELY.
SEPARATORS.



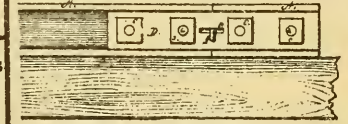
101,535, HENRY STEPHENSON.
WM. THOMPSON.
WILLIAM GREAVES BLAKE.
ORNAMENTAL-SCROLL TYPE



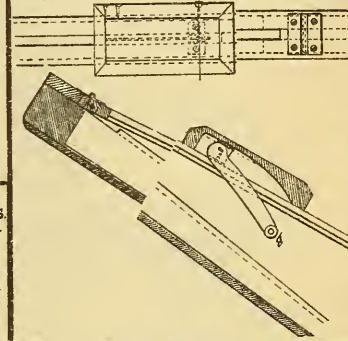
101,536, GARLAND B. ST. JOHN.
CULTIVATORS



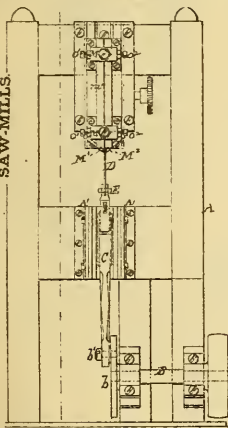
101,541, ESAU D. TAYLOR.
NUT-LOCK PLATE



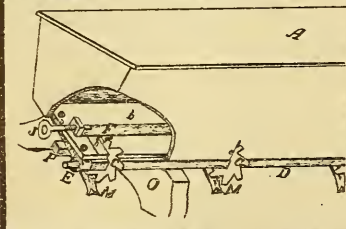
101,542. JOHN TEED. COUNTER KNIFE.



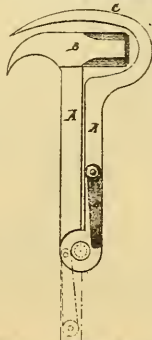
101,531, H. F. SNYDER.
G. N. SNYDER.
SAW-MILLS.



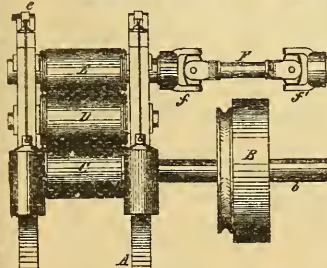
101,537, GARLAND B. ST. JOHN.
ATTACHMENT TO SEEDING-MACHINES



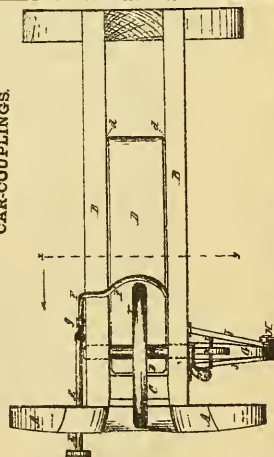
101,538, ROBERT STOUT.
HORSESHOEING-TOOL



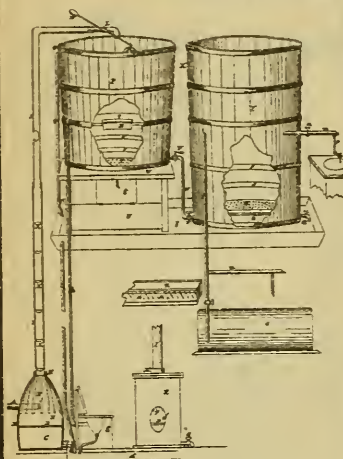
101,532, WM. H. SOLEY.
GEORGE STITES. FRICTION
CALENDER ROLLS FOR PAPER.



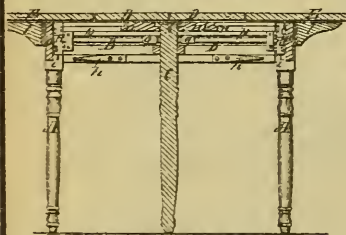
101,543,
JAMES TEMPLE,
CAR-COUPINGS.



101,544, JOHN A. THOMPSON.
PROCESS AND APPARATUS FOR
SUPPLYING PURE WATER
TO BUILDINGS.



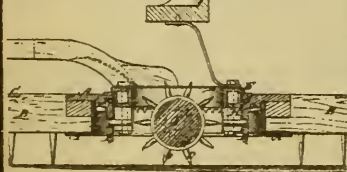
101,543, SMILIE TILTON.
EXTENSION-TABLE.



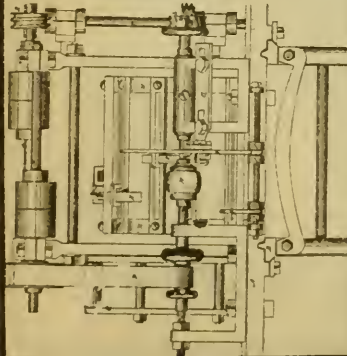
101,546, JOHN W. TUTTLE. PAPER BOX



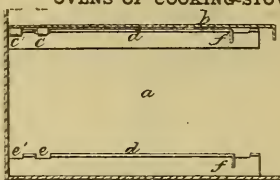
101,547, MR. WM. TUTTLE. HARROWS.



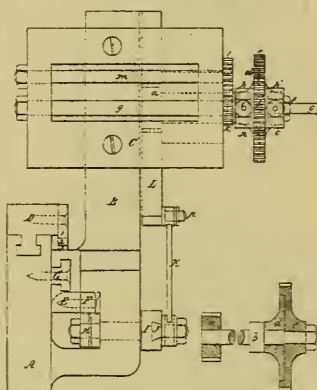
101,548, J. J. URMSTON.
WOOD-TURNING LATHE.



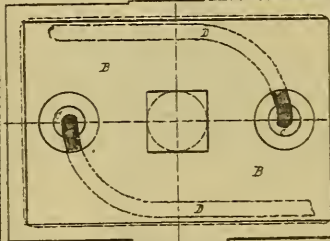
101,549, SAMUEL S. UTTER. SHELVES FOR
OVENS OF COOKING-STOVES.



101,550, HORATIO B. WEAVER.
FEED FOR IRON-PLANERS



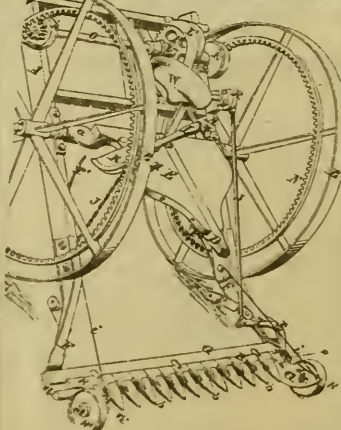
101,551, ISAAC P. WENDELL.
LUBRICATING JOURNALS
AND BEARINGS



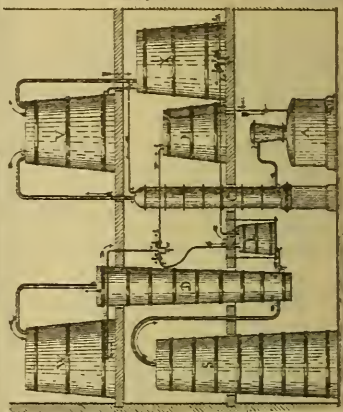
101,552, SYLVESTER P. WHEELER.
MANUFACTURE OF ARTICLES
OF COMPRESSED WOOD.

101,553, SYLVESTER P. WHEELER.
PROCESS OF TREATING WOOD.

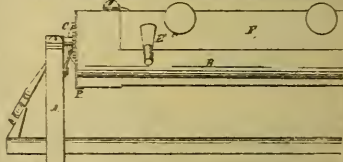
101,554, JOHN D. WILBER.
MOWING-MACHINES.



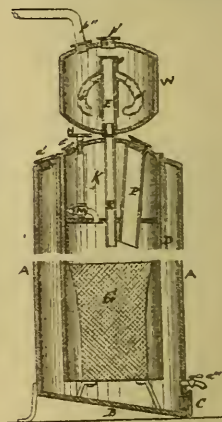
101,555, LUDWIG WOLFF.
COMBINATION
DISTILLING APPARATUS



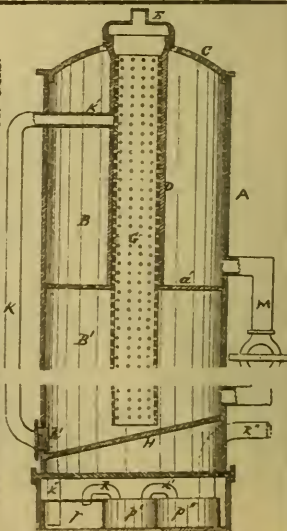
101,556, C. L. WOOD.
C. A. SHERIDAN.
MACHINE
FOR MAKING CORNICE MOLDINGS.

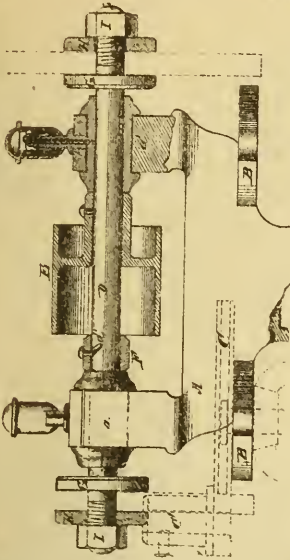
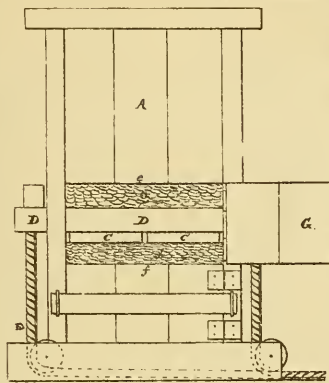
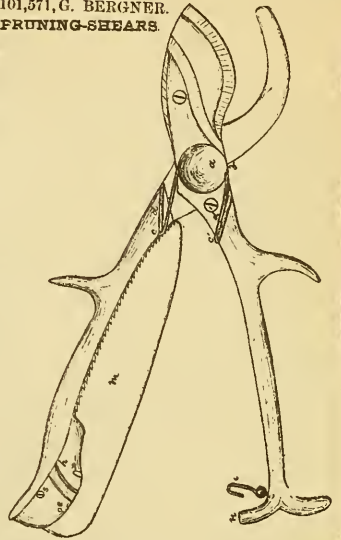
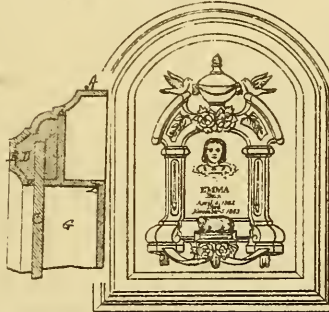
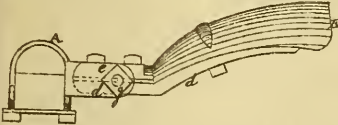
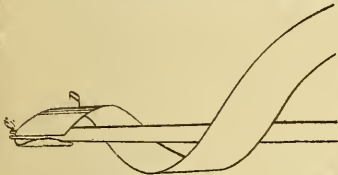
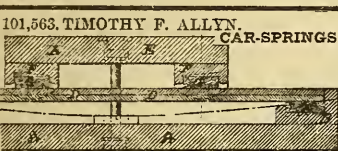


101,557, JOSEPH S. WOOD.
APPARATUS FOR GENERATING
AND CARBURETING HYDROGEN GAS.

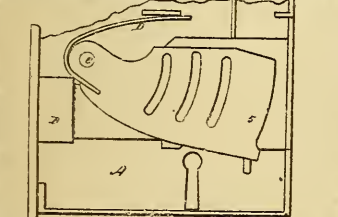


101,558, JOSEPH S. WOOD.
GENERATING HYDROGEN AND HYDROCARBON GAS.



101,559, THOS. H. WORRALL.
GRINDING-MACHINES.101,566, G. H. AYLWORTH.
HAY-PRESSES.101,571, G. BERGNER.
PRUNING-SHEARS.101,567, H. F. BAILEY.
TABLETS FOR TOMBS.101,560, EDMUND YEISER.
THRILL-COUPPLINGS.101,561, WILLIAM D. YOUNG.
CURLING-ROD
FOR PAPER CIGAR-LIGHTERS101,562, C. ALDEN.
PREPARING TOMATOES AND OTHER
FRUITS AND VEGETABLES TO BE USED
AS FOOD.101,563, TIMOTHY F. ALLYN.
CAR-SPRINGS

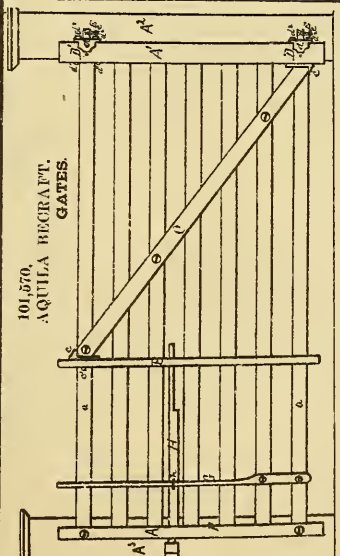
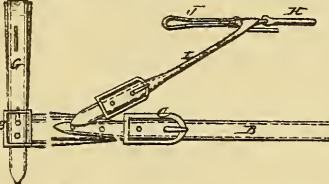
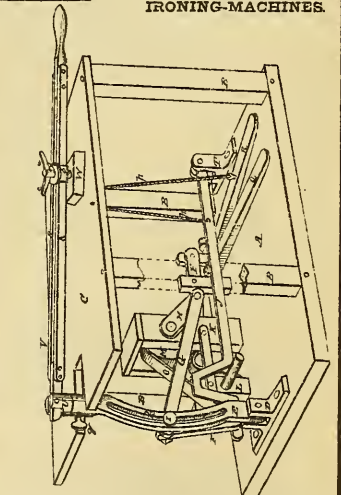
101,564, WM. H. ANDREWS, DOOR-LOCKS.

101,565, HENRY ANSLEY.
DIE FOR FORMING SLEEVE-BUTTONS.

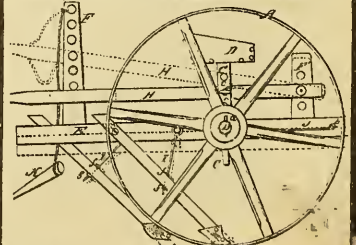
101,568, HENRY B. BARBER, GUN-SIGHTS.

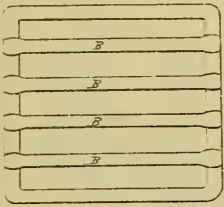


101,569, ELZY L. BASNETT, HARNESS.

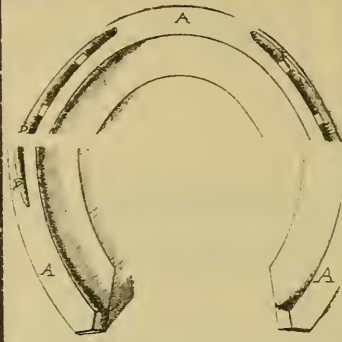
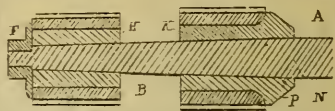
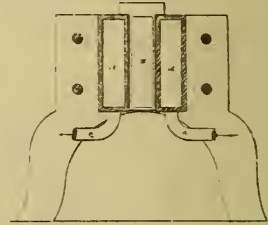
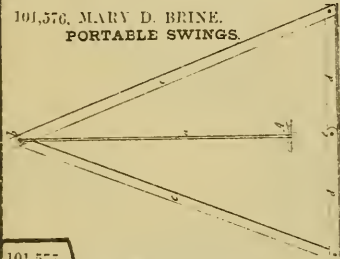
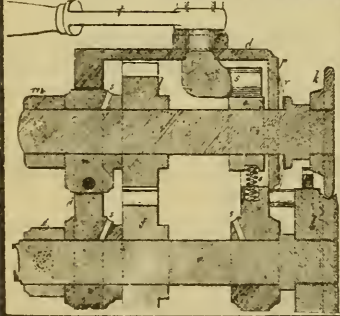
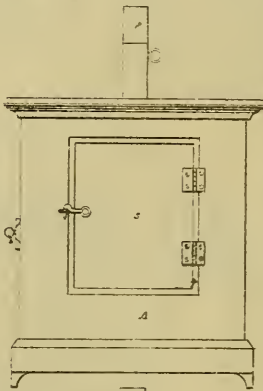
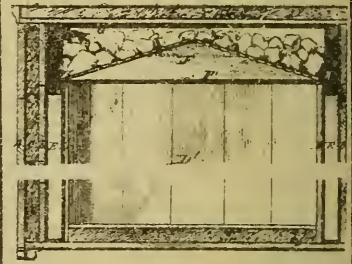
101,570,
AQUILA BECRAFT,
GATES.101,573,
GEORGE BOXLEY.
IRONING-MACHINES.

101,574, J. G. BOYD, BULKY PLOWS.

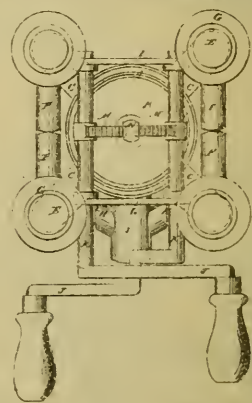
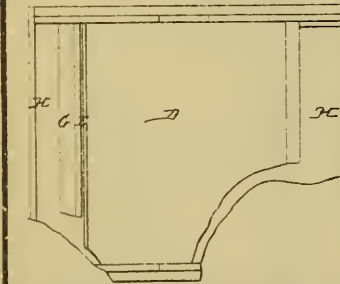


101,575. ZEBINA L. BRAGDON.
SEWER-GRATE

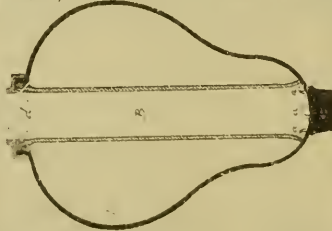
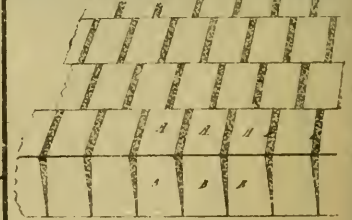
101,581. EBENEZER CATE. HORSESHOES.

101,586. T. M. CLIXTON.
WAGON-AXLES101,587. EDWARD F. COFFIN.
MOLDING AND CLARIFYING HORN101,576. MARY D. BRINE.
PORTABLE SWINGS.101,577.
CHAS. BROMBACHER.
TINMAN'S MACHINE.101,582. A. J. CHASE.
REFRIGERATOR.101,583. EDWARD S. COLTON.
REFRIGERATOR101,583. E. CLARK.
REGISTERING STEAM-GAUGE.

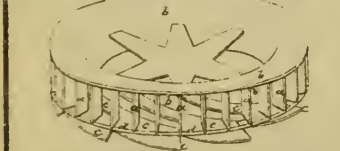
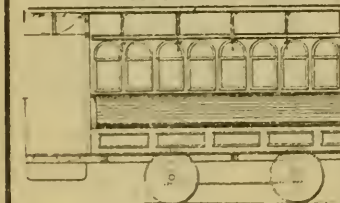
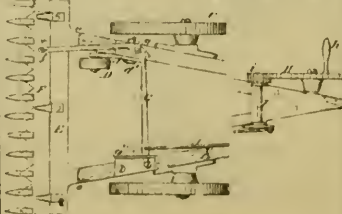
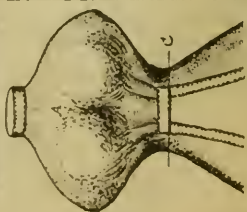
101,589. L. O. COLVIN. COW-MILKERS.

101,578. WM. H. BUTTERWORTH.
THRASHING-MACHINES.

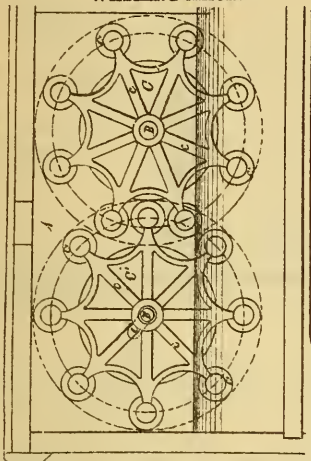
101,584. HEZEKIAH M. CLARK. LAMPS.

101,590. T. COWING.
WOOD PAVEMENT

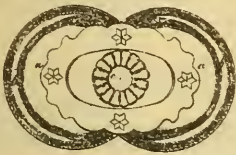
101,579. JOHN BUZBY. WATER-WHEELS.

101,580. CHARLES CARR. DEVICE FOR
RINGING STREET-CAR BELLS.101,585. CHARLES M. CLINTON.
LAWN-MOWERS101,591. A. M. DAVIS.
GARMENT-DUMMIES

101,592, CYRUS DEAN.
WASHING-MACHINE.

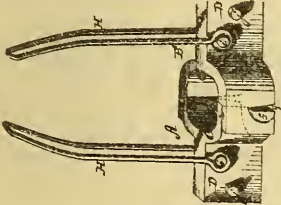


101,593, WILLIAM P. DEMAREST.
SHOE-TRIMMING



101,594, E. J. DE SMEDT.
COMPOSITION ROOFING, FAVING, &c.

101,595, WM. H. DOWNING.
LIFTING-CLAMPS FOR PUMPS.

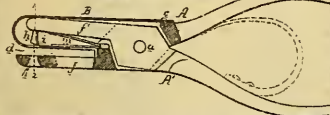


101,596, H. J. DURGIN. REVOLVING
CENTER-REST FOR WOOD-LATHES.

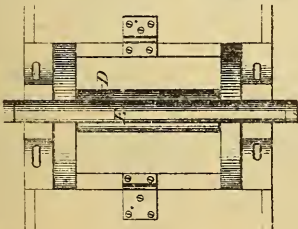


101,597, GEORGE W. ELDRIDGE.
FIRE-KINDLING.

101,598, ROBERT ENGELS.
TICKET-PUNCH.



101,599, THOMAS R. EVANS.
CHURNS.



101,600, MATTHEW FALOON.
SPRING-BED BOTTOM.



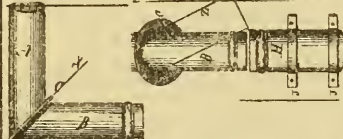
101,601, F. FANNING.
WIRE-TIGHTENER
FOR WIRE FENCE.



101,602, DR. JOSEPH FANYOU.
GALVANIC SHOE-SOLES.



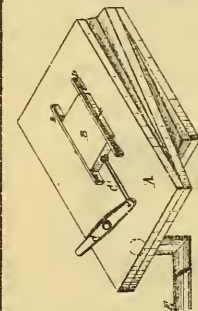
101,603, J. D. FIELD. ADJUSTABLE
ELBOW-JOINTS FOR WATER-PIPES.



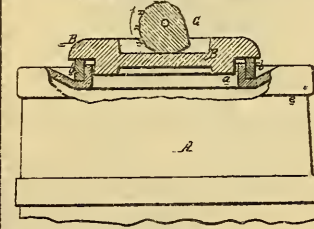
101,604, A. C. FLETCHER. ADHESIVE
POSTAL AND REVENUE STAMP



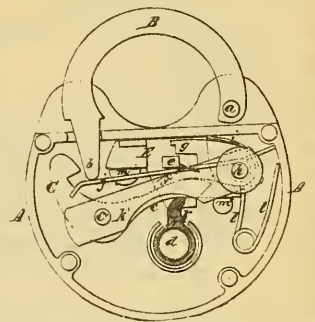
101,605, CARL FOGELBERG.
MELODY ATTACHMENT FOR ORGANS.



101,606, WM. GALLOWAY.
FASTENINGS FOR FRUIT-JARS.



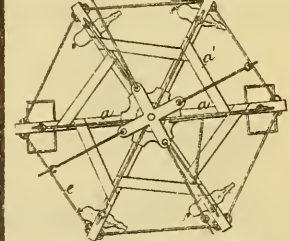
101,607, CHARLES T. GIBSON.
PADLOCKS.



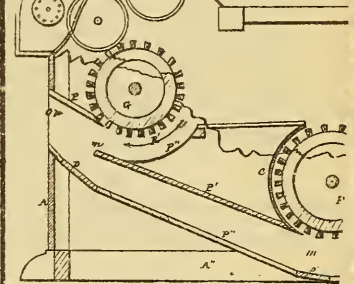
101,608, M. T. GLIMSDAL. BRICK-MOLD.



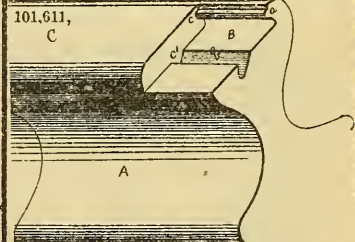
101,609, ALMERON GRAVES.
REVOLVING SWING.



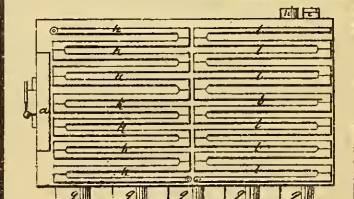
RICHARD R. GWATHMEY.
101,610.
COTTON-GINS.

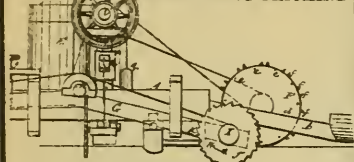
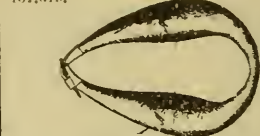


JOHN C. HAGAN. RAILWAY-RAILS.



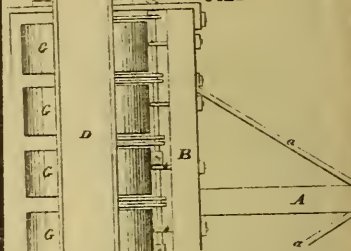
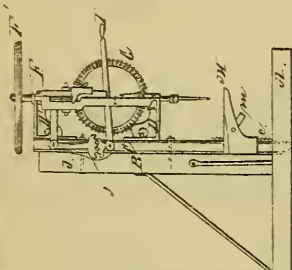
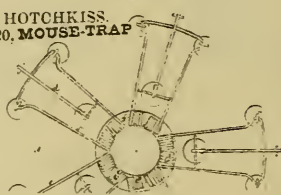
101,612, FREDRICK P. HALLBERG.
STEAM-HEATER.



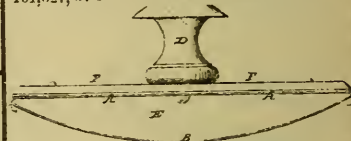
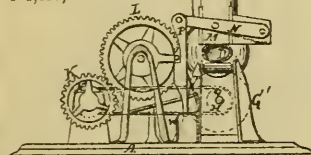
101,613. VALENTINE H. HALLOCK.
ICE-CUTTING MACHINEGEORGE HORTER.
HORSE-COLLARS.

101,626. A. S. KEAGY.

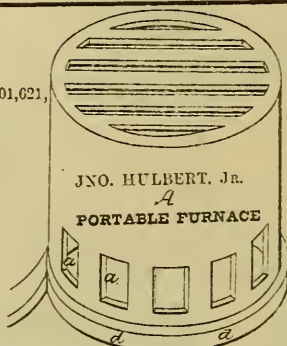
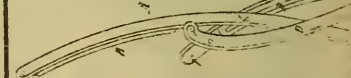
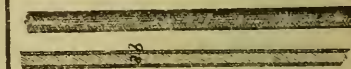
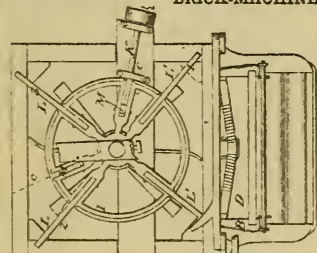
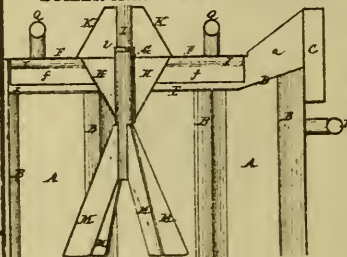
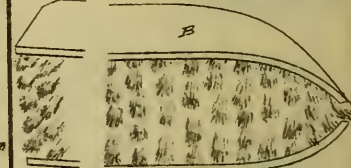
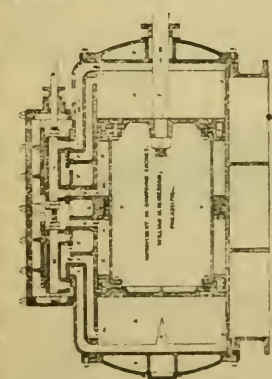
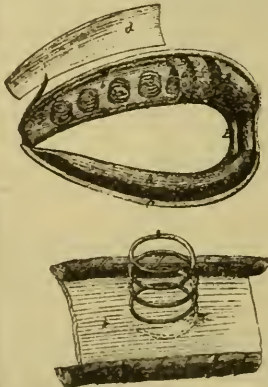
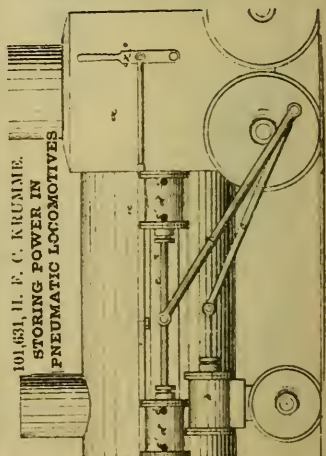
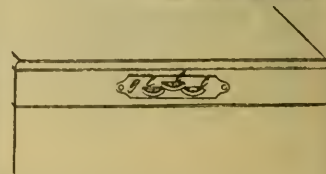
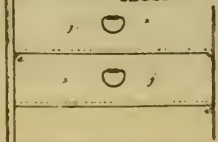
FIELD-ROLLERS

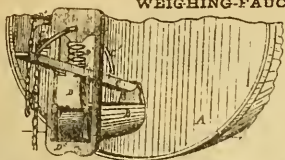
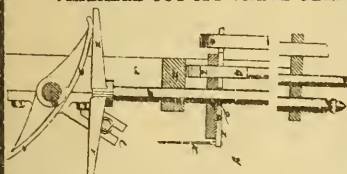
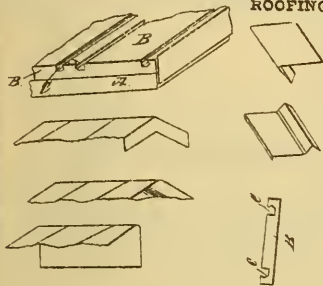
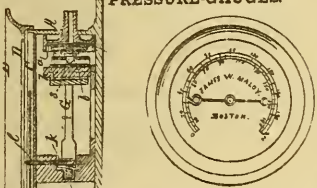
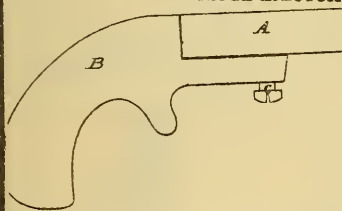
101,614. JOSEPH H. HANES.
SELF-FEEDING DRILLA. A. HOTCHKISS.
101,620. MOUSE-TRAP

101,627. J. M. KEEP. BLOTTING-PADS.

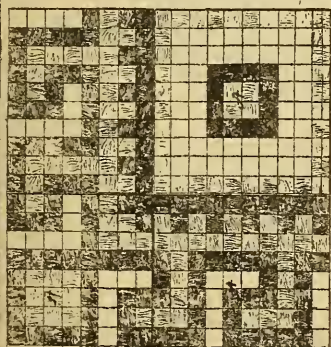
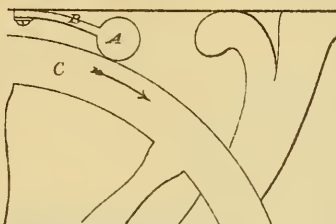
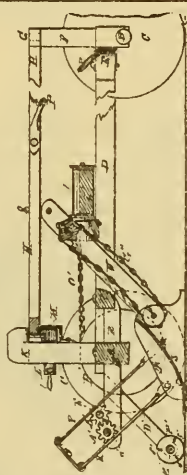
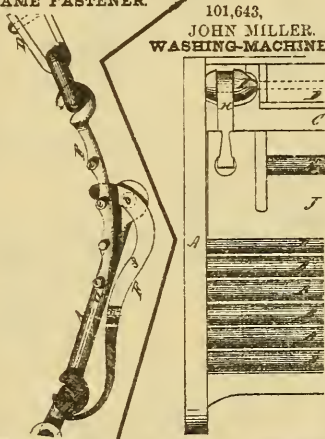
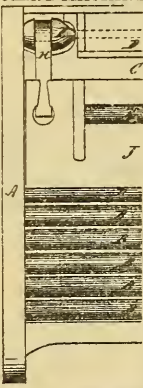
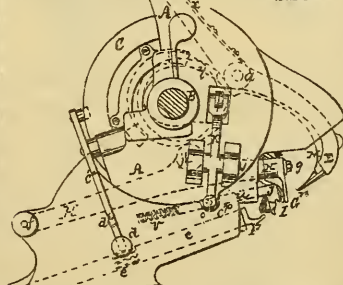
JOHN E. HAWKINS. BREAD-MACHINE.
101,615,

101,621,

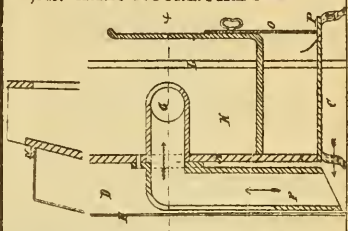
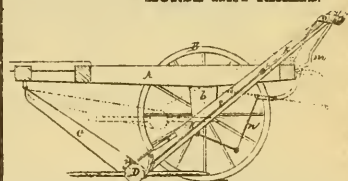
JNO. HULBERT, JR.
A
PORTABLE FURNACE101,628. FR. KILLAN
FOLDING CHAIR101,629. TOBIAS KOHN.
PICTURE-CORD101,616. C. V. HEMENWAY.
BRICK-MACHINES.101,622. DANIEL H. HULL.
BOILER AND WASHING-MACHINE.101,630. BENJAMIN F. KOLLER.
SCRUBBING-BRUSH101,617. W. M. HENDERSON.
DIRECT ACTING COMPOUND STEAM
ENGINE.101,623. R. HUMPHREY.
HORSE COLLAR101,631. H. F. C. KRUMME.
STORING POWER IN
PNEUMATIC LOCOMOTIVES.101,632. JOHN H. LARRY.
PERMUTATION LOCK101,618. GEORGE A. HIGGINS
CLOSET FOR CAKE.101,624.
OLIVER E. HUNTER.
MANUFACTURE OF STEEL101,625. J. J. KARLEN
COMPOSITION FOR THE
MANUFACTURE OF
FRICTION MATCHES.

101,633, DANIEL LESH, JR.
WEIGHING-FAUCETS.101,634, NATHL. K. LYNCH.
VARIABLE CUT-OFF-VALVE GEAR.101,635, THOMAS A. MAKIBBIN.
ROOFING.101,636, JAMES W. MALOY.
PRESSURE-GAUGES.101,637, J. M. MARLIN.
CARTRIDGE EJECTOR.

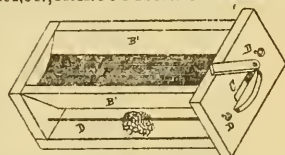
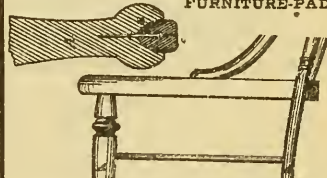
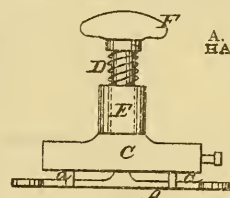
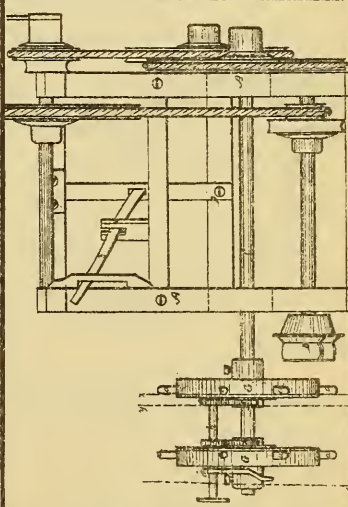
101,638, C. J. McALISTER. FLOORING.

101,639, E. D. McINTOSH.
BRAKE TO PREVENT REVERSE MOTION
OF DRIVING WHEEL IN SEWING
MACHINES.101,640, S. P. McKELVEY.
DITCHING MACHINE.101,641, L. O. P. MEYER.
MANUFACTURE OF SAFETY MATCHES101,642, C. H. MILLER.
HANE FASTENER.101,643,
JOHN MILLER.
WASHING-MACHINE101,644, D. MILLS.
SEWING MACHINE FOR BOOTS AND
SHOES.

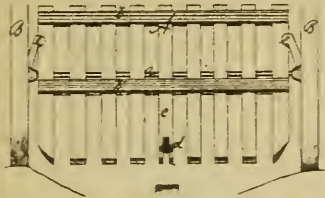
101,645, JAMES MOORE. FIRE-PLACES.

101,646, JOHN H. MORRIS.
HORSE HAY-RAKES.

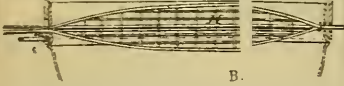
101,647, MARCUS MORTON. BEE-HIVES.

101,648, WM. B. MOSES
FURNITURE-PAD.101,649,
A. L. MUNSON.
HAND STAMPS.101,650, HIRAM NELSON.
FOR CROZING BARRELS.

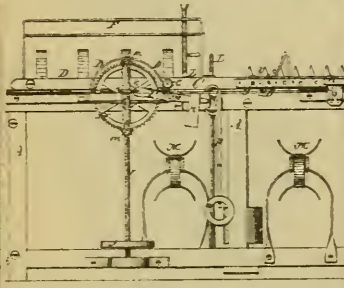
101,651. A. E. NOBLE. FLOOD-GATES.



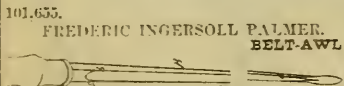
101,652. M. V. NOBLES. GRIDIRON-CASE.



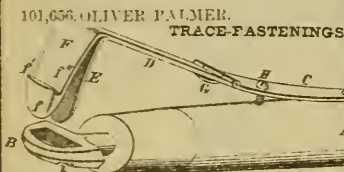
101,653. JOSIAH OOTHOUT. LATH-MACHINE.



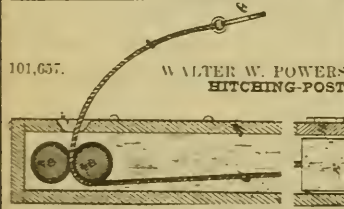
101,654. JOHN FELT OSGOOD. DESULPHURIZING ORES.



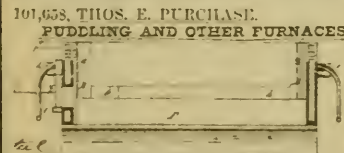
101,655. FREDERIC INGERSOLL PALMER. BELT-AWL.



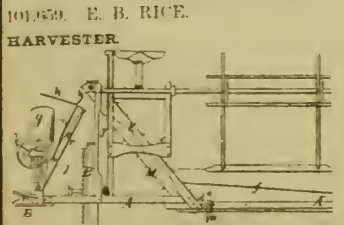
101,656. OLIVER PALMER. TRACE-FASTENINGS.



101,657. WALTER W. POWERS. HITCHING-POST.



101,658. THOS. E. PURCHASE. PUDDLING AND OTHER FURNACES.

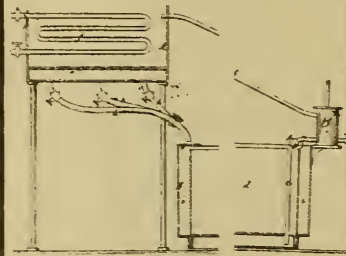


101,659. E. B. RICE. HARVESTER.

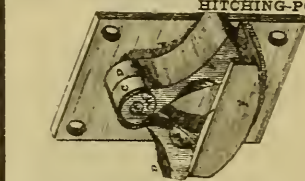
101,660. CANCELED.

101,661. LOUIS T. ROBERTSON.

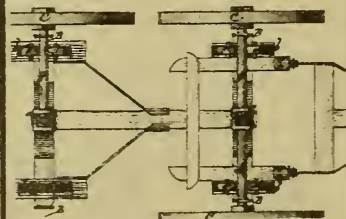
TANNING BY INFILTRATION.



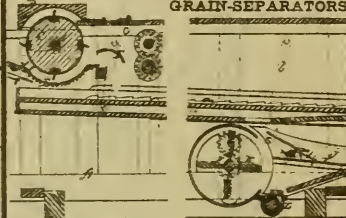
101,662. JOHN S. ROHRER. HITCHING-POSTS.



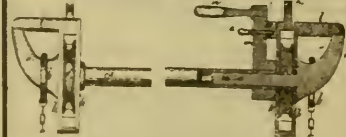
101,663. ELIAS ROWE. VEHICLES.



101,664. LEWIS ROYER. GRAIN-SEPARATORS.



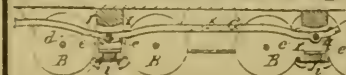
101,665. WM. S. RYERSON. GEO. STANCLIFF. BOAT-DETACHING APPARATUS.



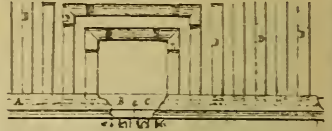
101,666. JOHN D. SHUETTE. CHURNS.



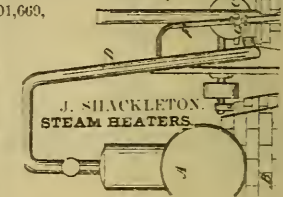
101,667. GEO. H. SEYMOUR. CAR-BRAKES.



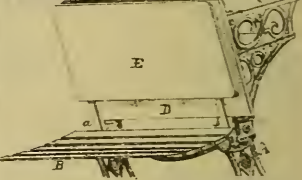
101,668. J. SHACKLETON. STEAM RADIATOR.



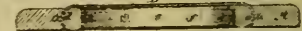
101,669.



101,670. CALVIN W. SHERWOOD. SCHOOL-DESK.



101,671. CALVIN D. SMITH. CHAIR-SEAT.



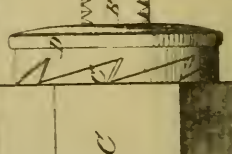
101,672. THOS. SMITH, JR. TEAPOTS.



101,673. W. R. SMITH. REVERSIBLE LATCHES.



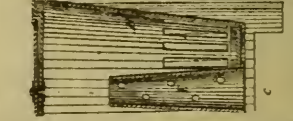
101,674. CHRIS. S. SOUTHWICK. DAVID H. BARKER. NUT-LOCK.



101,675. GREENLEAF STACKPOLE.

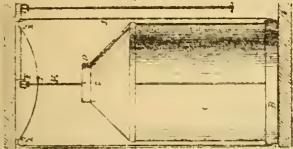


101,676. RUFUS O. STEVENSON. SUMMER COOKING-FURNACE.



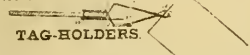
101,677. G. W. STORY. CARPET-STRETCHER.



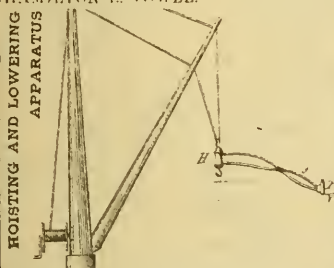
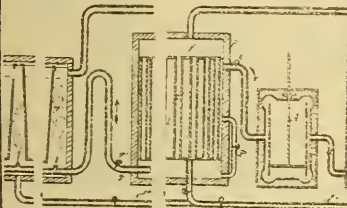
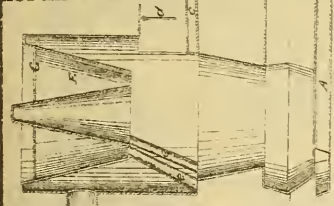
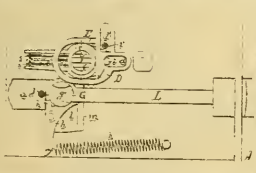
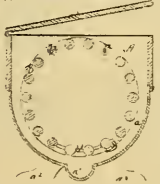
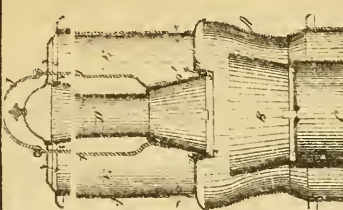
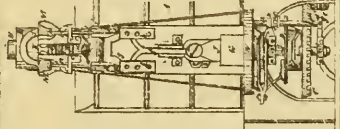
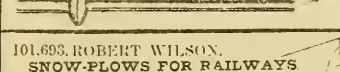
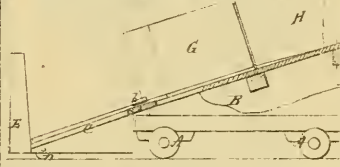
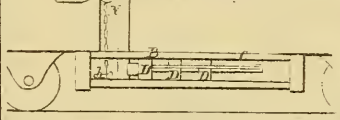
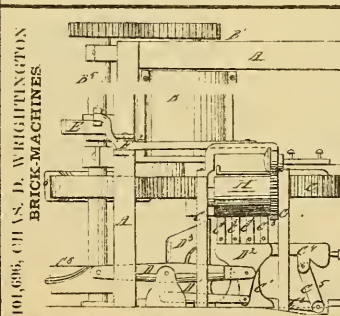
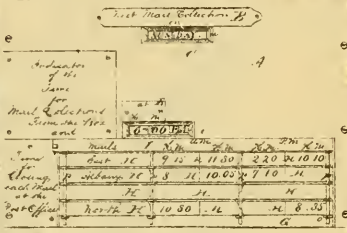
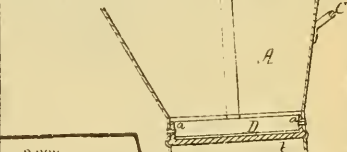
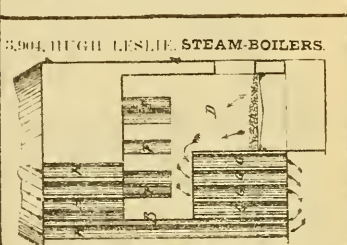
101,675, H. N. TAFT.
SUSPENSION BATH-TENTS101,679, HERMANN TEATS.
COMPOSITION FOR CLEANING
PLATE AND GLASS.

101,680, EDGAR C. TEN-KEY.

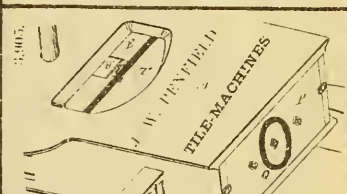
TAG-HOLDERS



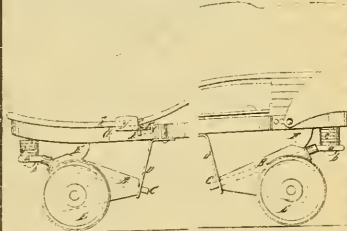
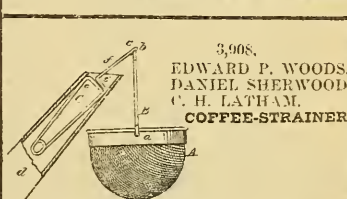
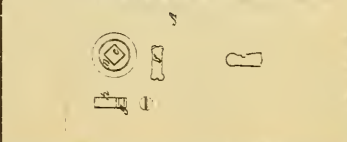
101,681, HAMILTON E. TOWLE.

101,682, D. K. TUTTLE AND O. LUGO.
ICE MACHINE.101,683, J. S. VAN BUREN.
HOT-AIR FURNACES.101,684, EDWARD VOLFF.
PHILIP P. MATHEN.
LOCKS.101,685, HIRAM J. WATTLES.
VEGETABLE-WASHER.101,686, J. W. WESTON.
CAR-WHEEL.101,687, CHARLES W. WESTOVER.
COMPOSITION FOR PAINT CEMENT.101,688, ALEXANDER WHITE.
BASE-BURNING STOVES101,689, A. E. WHITMORE.
SLIDING CALIPERS.101,690, CARMEL H. WILLIAMS.
BRICK-MACHINES.101,691, WILLIAM H. WILLIAMS.
STREET-PAVEMENT.101,692, L. B. WILSON.
BLOW-PIPES.101,693, ROBERT WILSON.
SNOW-FLOWS FOR RAILWAYS.101,694, WILLIAM WIMER.
CAR-COUPINGS.101,695, REUBEN WOTTRING.
CULTIVATORS.101,696, CHAS. D. WRIGHTINGTON.
BRICK-MACHINES.101,697, JAMES T. YOUNG.
TIME-INDICATORS FOR LETTER-BOXES3,902, J. EDGAR.
COAL SCUTTLE.3,903, H. HARROP.
MODE OF ORNAMMENTING.

3,904, HUGH LESLIE. STEAM-BOILERS.



3,906, JAMES L. PLIMPTON. SKATES.

3,907, JOHN B. READ.
MANUFACTURE OF PAPER3,909, NORWALK LOCK CO.
E. BEARD, Secy. & Treas.
REVERSIBLE KNOB-LATCHES.

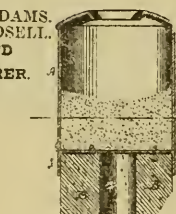
ILLUSTRATIONS OF PATENTS

ISSUED FROM

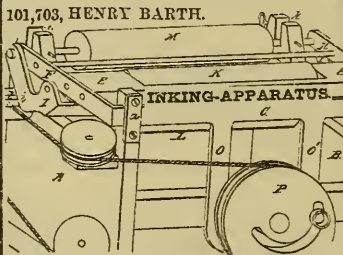
THE UNITED STATES PATENT OFFICE

APRIL 12, 1870.

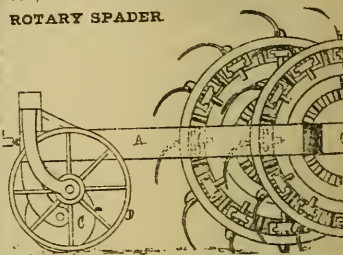
JOHN QUINCY ADAMS.
SAMUEL R. GOODSALL.
101,698, IMPROVED
KNIFE-SCOURER.



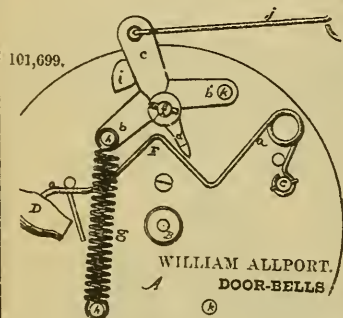
101,703, HENRY BARTH.



101,710, J. CHENOWETH
ROTARY SPADER.



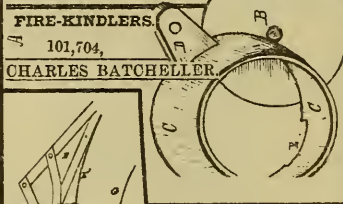
101,699.



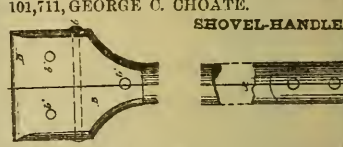
WILLIAM ALLPORT.
DOOR-BELLS.

FIRE-KINDLERS.

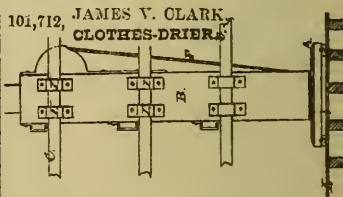
101,704,
CHARLES BATCHELLER.



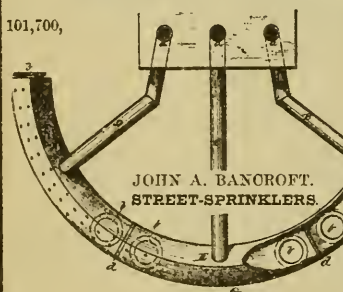
101,711, GEORGE C. CHOATE.
SHOVEL-HANDLE.



101,712, JAMES V. CLARK.
CLOTHES-DRIERS.

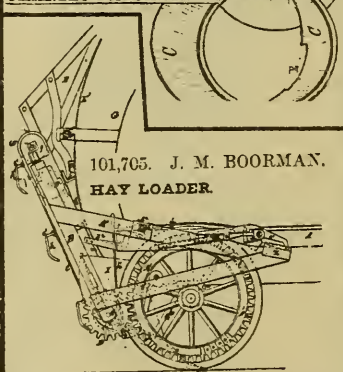


101,700.

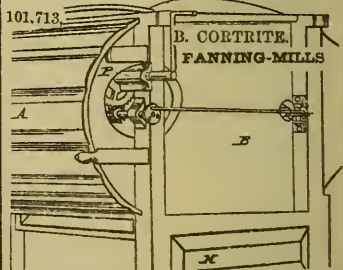


JOHN A. BANOROFF.
STREET-SPRINKLERS.

101,705, J. M. BOORMAN.
HAY LOADER.



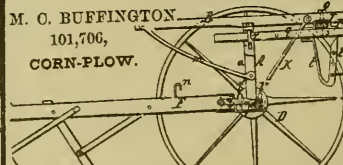
101,713,
B. CORTRITE.
FANNING-MILLS.



101,701, B. J. BARBER. CUTTER-HEAD
FOR PLANING-MACHINE.



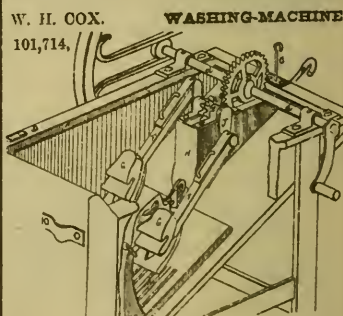
M. C. BUFFINGTON.
101,706,
CORN-PLOW.



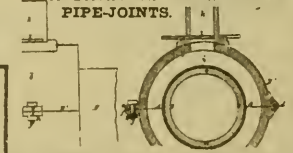
JOHN JOSEPH BURKERT. TIN CANS.
101,707.



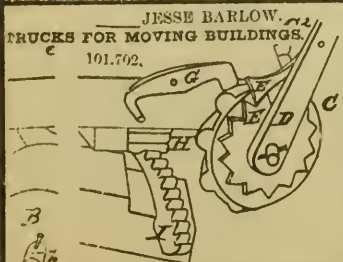
W. H. COX. WASHING-MACHINE.
101,714.



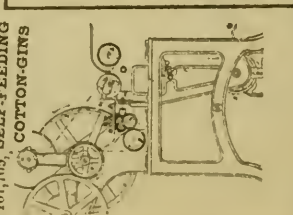
101,708, WILLIAM CASSIDY.
APPARATUS FOR SEALING
PIPE-JOINTS.



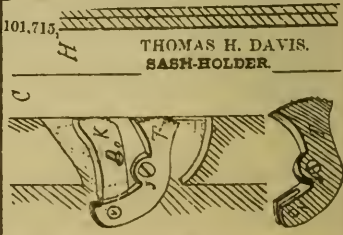
JESSE BARLOW.
TRUCKS FOR MOVING BUILDINGS.
101,702.



JULES ALFRED CHAUFOURIER.
101,709, SELF-FEEDING
COTTON-GINS.



101,715,
THOMAS H. DAVIS.
SASH-HOLDER.

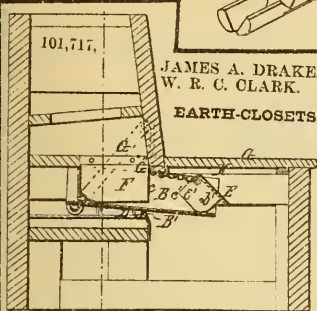


101,716, HEZERIAH DODGE.
IMPROVED MOP-HEAD.

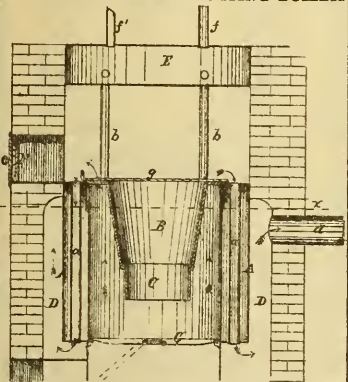


101,717.

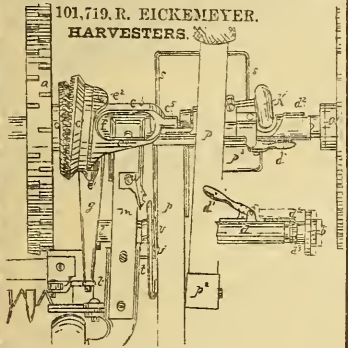
JAMES A. DRAKE.
W. R. C. CLARK.
EARTH-CLOSETS.



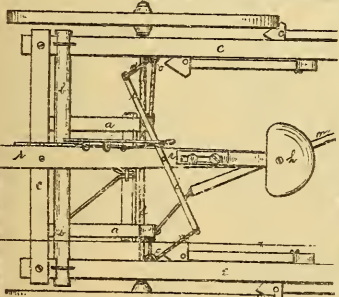
101,718, WM. B. DUNNING.
BASE-BURNING STOVE
FOR A STEAM HEATING BOILER.



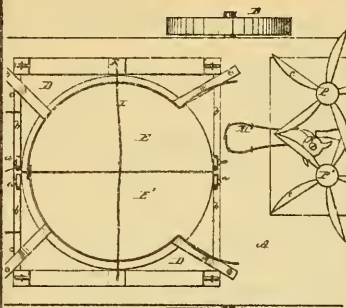
101,719, R. EICKMEYER.
HARVESTERS.



101,720, FRANK FARNSWORTH.
SULKY CULTIVATORS.

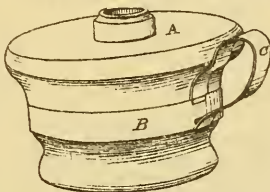


101,721, HENRY FLESHER.
CORN-HARVESTERS.



101,722, A. J. FLETCHER.
HAIR MEDICINE.

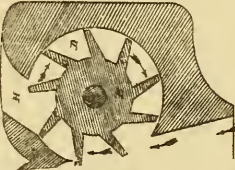
101,723, SAMUEL W. FOWLER. LAMPS.



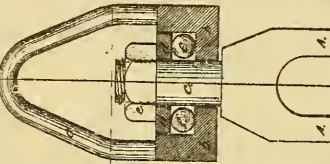
101,724, CARLOS FRENCH.
CAR-SPRINGS.



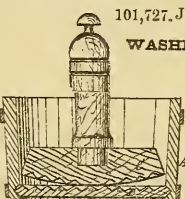
101,725,
JOHN L. FRISBIE.
WATER-WHEELS.



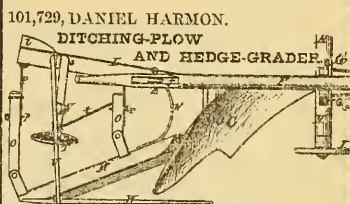
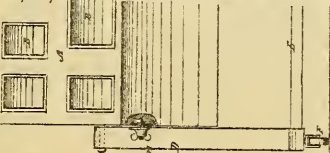
101,726, THOMAS GRAHAM.
SWIVELS FOR TEMPER-SCREWS.



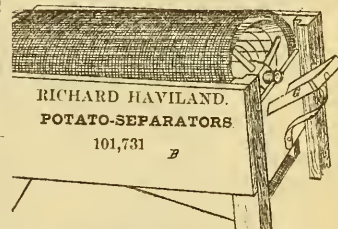
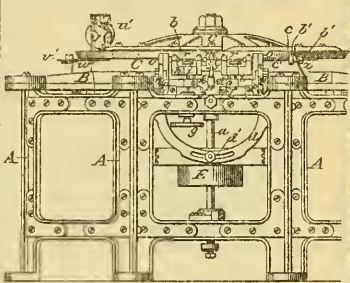
101,727, JOHN A. HALL.
WASHING-MACHINE.



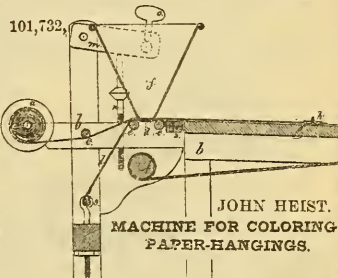
JAMES H. HAMILTON. PHOTOGRAPHIC
101,728, PRINTING APPARATUS.



101,730, E. F. HARRINGTON.
CORK-CUTTING MACHINES.

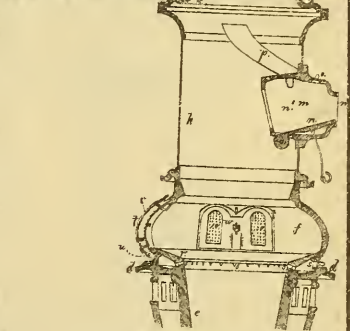


RICHARD HAVILAND.
POTATO-SEPARATORS
101,731

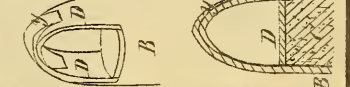


101,732, JOHN HEIST.
MACHINE FOR COLORING
PAPER-HANGINGS.

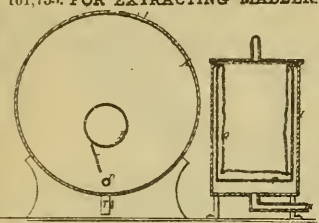
101,733, M. C. HULL.
HEATING-STOVES.



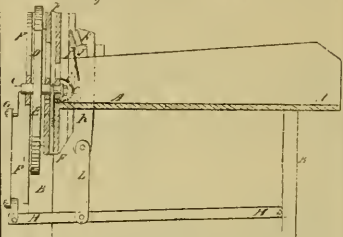
JOSHUA HUNT. PICKER FOR LOOMS.
ALBERT STOCKWELL.
101,734,



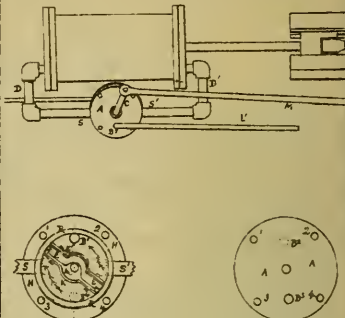
JAMES HUNTER. APPARATUS
101,735. FOR EXTRACTING MADDER.



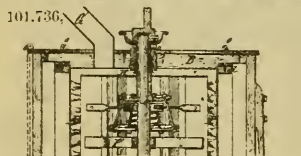
101,741. JOHN S. JONES. STRAW-CUTTER.



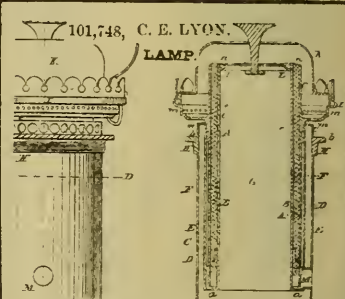
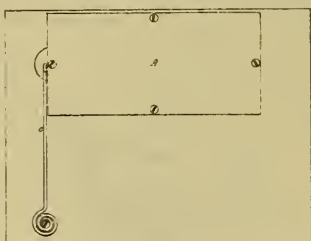
101,747. G. E. LONG. STEAM-ENGINES.



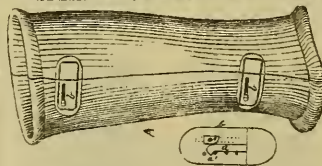
WML. W. HUNTLEY.
ALPHIUS BABCOCK.
IMPROVED MACHINE FOR
SEPARATING FLOUR FROM BRAN.



101,742. MICHAEL JAMES KERIGAN.
TREMULO ATTACHMENT
FOR REED OR PIPE-ORGANS.

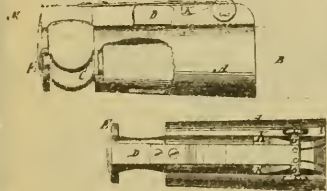


101,743. GEO. S. KING.
SPLINTS FOR FRACTURED LIMBS.

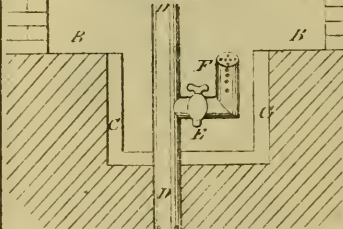


101,737. CHAS. H. JENKINS.
MANUFACTURE OF GLASS.

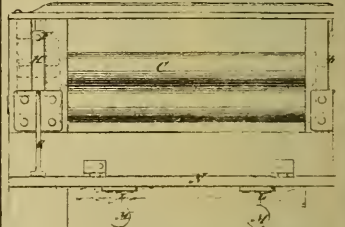
101,738. LEONARD A. JOHNSON.
TUG-FASTENING FOR WHIFFLETREES



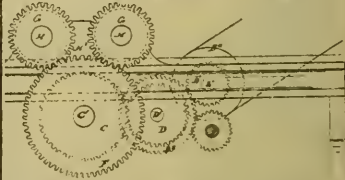
101,744. ADAM KNACKER.
SINK APPARATUS
FOR DRAINING CELLARS.



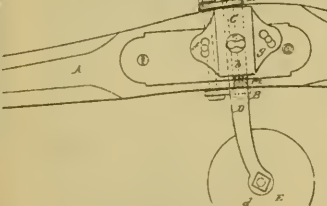
101,749. ALLEN MAGOWAN.
IMPROVED CLOTHES-WRINGER



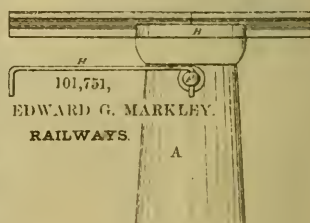
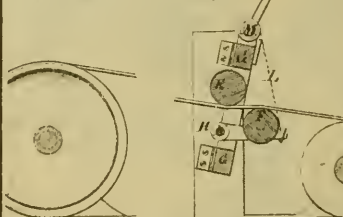
101,750. WILLIAM MANN. MACHINE
FOR CORRUGATING SHEET METAL.



VIBRATING COLTER FOR PLOWS.
JOHN S. JOHNSTON. 101,739.



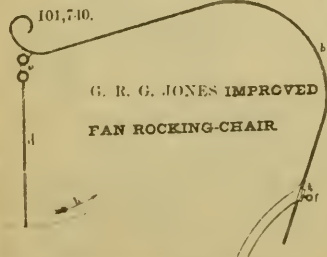
WILLIAM E. LEIGHTON.
BELT-SHIFTERS. 101,745.



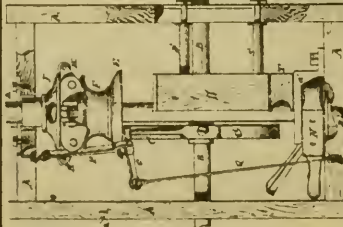
101,751.
EDWARD G. MARKLEY.
RAILWAYS.

101,740.

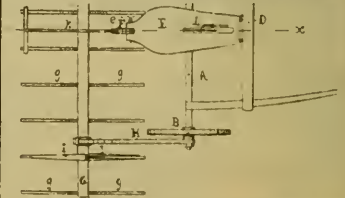
G. R. G. JONES IMPROVED
FAN ROCKING-CHAIR.

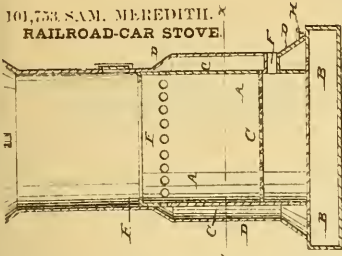


101,746. SAMUEL LEWIS.
IMPROVED ROCK-DRILL.

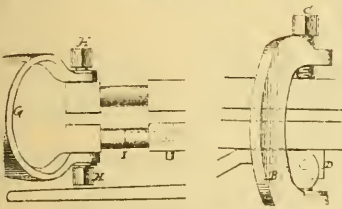


101,752. ROBERT W. McCLELLAND.
HORSE HAY-RAKE

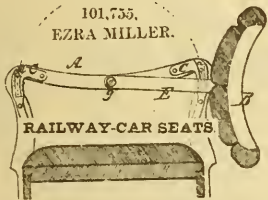
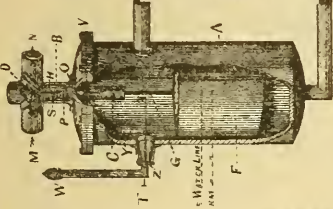
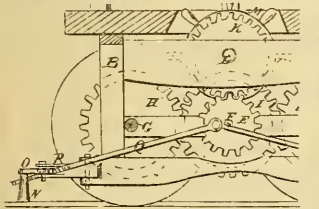
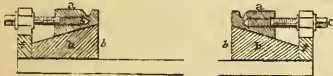


101,753, SAM. MEREDITH.
RAILROAD-CAR STOVE.

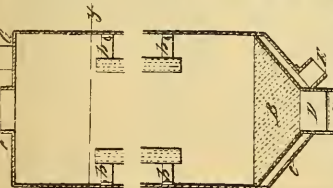
101,754, PLATT MERRILL. SAW-CLAMP.

101,755,
EZRA MILLER.

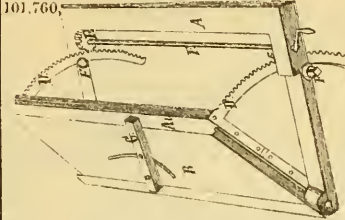
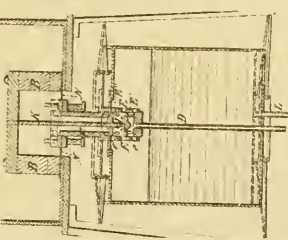
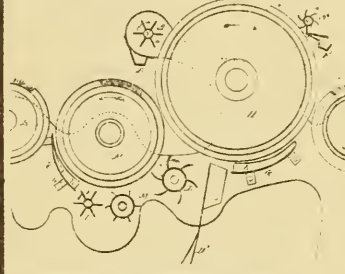
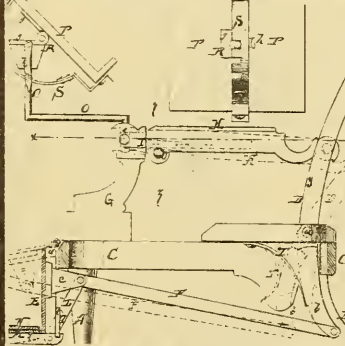
RAILWAY-CAR SEATS

101,756, ALBERT W. MORRELL.
FEED-WATER REGULATOR AND
LOW-WATER ALARM.101,757, JAS. A. MORRISON.
TRACK-CLEARER FOR STREET-CARS.101,758, GEO. F. MORSE.
TABLE FOR CHANGING GAUGE
OF RAILWAY-CAR TRUCKS.

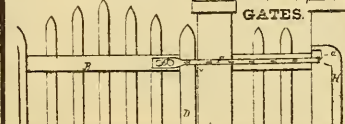
101,759, IRA Y. MUNN. GRAIN-DRIER.



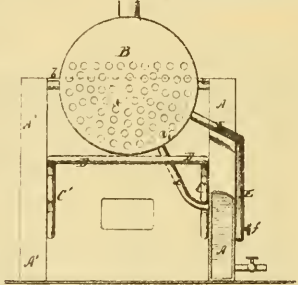
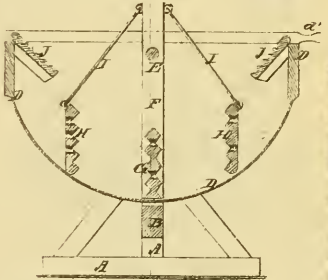
PETER NEEB. CIRCULAR-SAW MILLS.

101,761, PERSON NOYES.
TANKS FOR STORING OIL.101,762, SAMUEL J. PARKER
IMPROVED BOILER-FEEDER101,763, ZIBA PARKHURST.
MACHINE FOR BURREING
AND CLEANING WOOL, &c.101,764, W C POPPENDIECHE
IMPROVED EASY-CHAIR

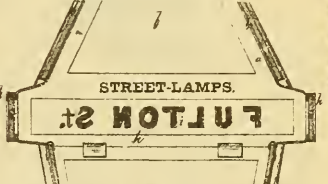
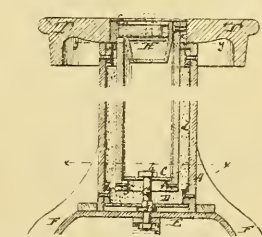
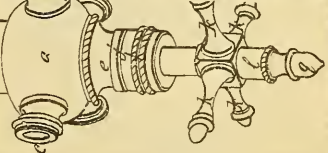
FITCH RAYMOND.

101,765,
GATES.

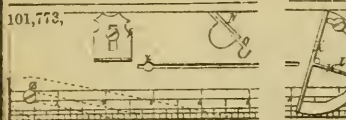
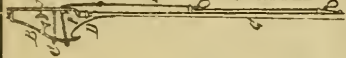
JOSEPH RICHARDSON.

101,766,  FOWL-FEEDERS.101,767, MICHAEL RITCHEY.
STEAM-GENERATORS.JAMES D. ROYSE.
JOHN ROYSE.
101,768,
IMPROVED WASHING-MACHINE.

101,769,

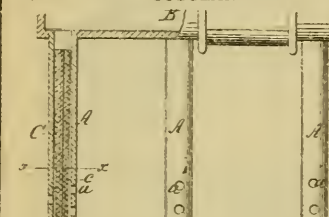
WILLIAM G. SCHMIDLIN.
JEREMIAH W. DRISCOLL.101,770, PHILIPP SCHREYER.
MONEY-SAFES.101,771, HENRY SCHULTZ. REGULATING
DEVICE FOR GAS-BURNERS.

101,772. JOHN SELTZER.
IMPROVED STORE AND HOUSEHOLD
GRAPPLE



W. A. SHARP. IMPLEMENT.

101,774 J. SHAW. TUBULAR WELLS.

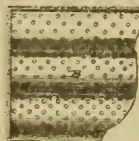


101,775. GEO. SHOVE. ROOFING-TILES.

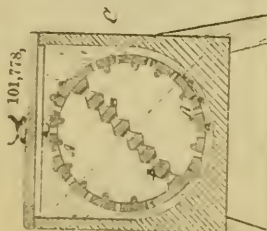
101,776 HAMILTON ERASTUS SMITH.
IMPROVED MULTIPLE SPONGE.



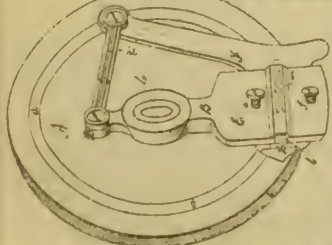
101,777. HAMILTON ERASTUS SMITH.
IMPROVED MOP, MAT
AND WIPING-CUSHION.



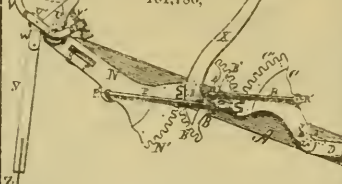
HAMILTON ERASTUS SMITH.
IMPROVED WASHING-MACHINE.



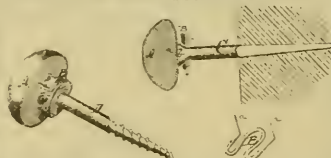
101,779. FRIEDRICH SPOEHR.
MECHANISM FOR OPERATING
THE FEEDING-WHEEL IN SEWING
MACHINES.



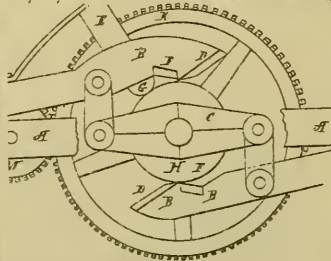
APPARATUS FOR MOVING CARS
EZRA SPRINGER.
101,780,



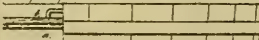
JOHN H. SQUIER. 101,781.
EZRA J. WARNER. PICTURE-NAILS



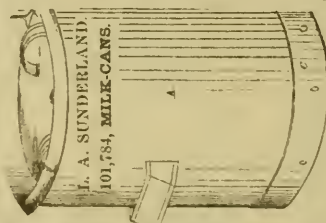
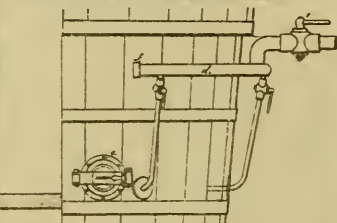
101,782. WM. STEELE. VENEER-CUTTERS.



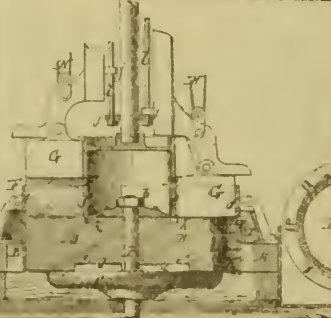
101,783. STEN STENBERG.



MANUFACTURE OF SUGAR
AND ALCOHOL FROM LICHENS.



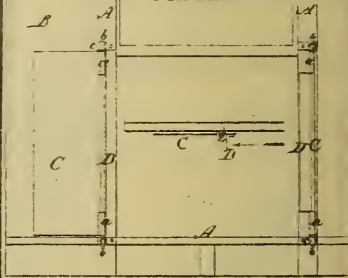
101,785. S. C. TAFT.
WOOD PULP MACHINE.



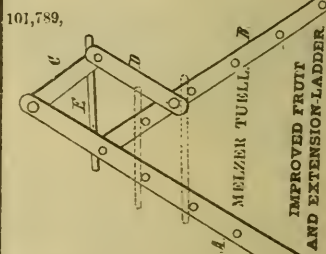
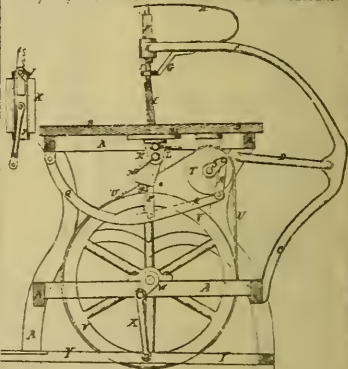
101,786. GEORGE F. THOMAS, JR.
PAPER FOR CHECKS
DRAFTS, NOTES, &c

101,787. WM. M. K. THORNTON.

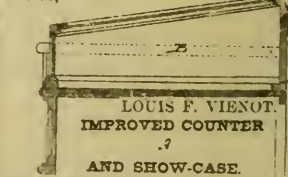
DUST-ARRESTER
FOR RAILROAD-CARS.



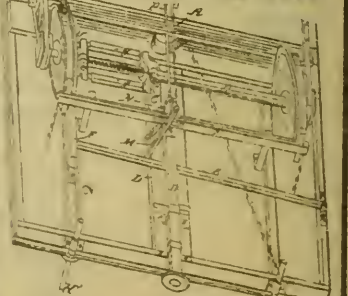
ELIPHALET A. TRIPP.
101,788. SCROLL-SAWING MACHINES.



101,789,



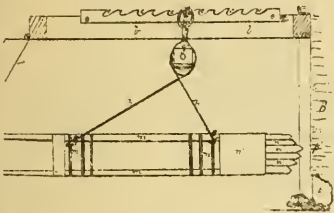
101,790,
EDWARD P. VINING. 101,791.
RAILWAY-CAR BRAKES.



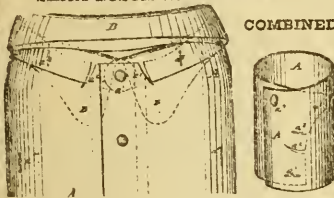
101,792. E. A. WALKER.
PISTON PACKING.



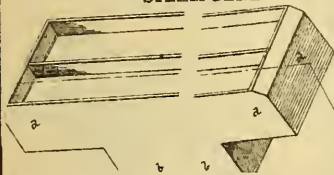
101,793. WM. WARD.
COAL-DIGGING APPARATUS.



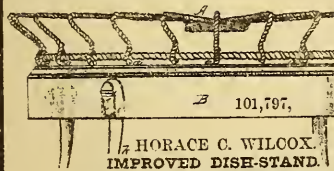
101,794. EFFINGHAM H. N. WARNER.
SHIRT-BOSOM AND WRISTBANDS
COMBINED.



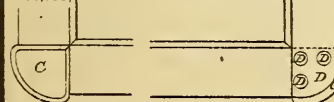
101,795. MARSHALL D. WELLMAN.
GRATE-BARS FOR
STEAM-GENERATORS.



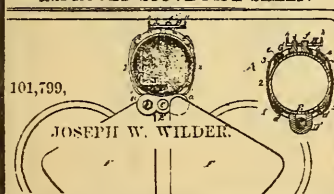
101,796. ASA WHEELER.
IMPROVED COUNTERSINK.



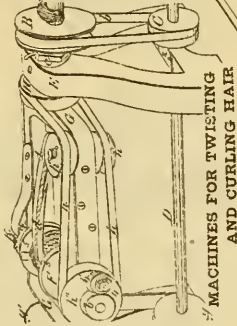
WILLIAM A. WILDE. SLATE-FRAMES.
101,798.



IMPROVED STOVE-PIPE SHELF.

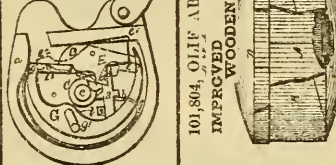
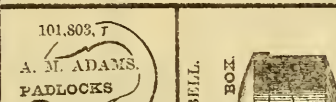
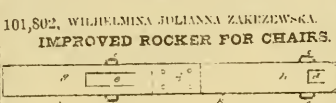


101,800. PHILIP WISDOM.
JOHN H. WILCOX.

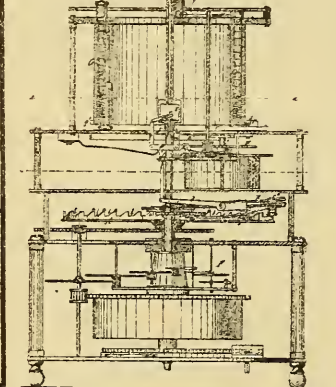


MACHINES FOR TWISTING
AND CURLING HAIR

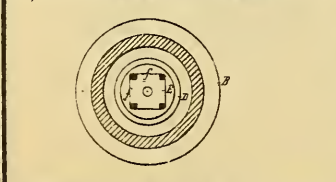
101,801. CHAS. B. WORTHINGTON.
GRAIN-BINDERS.
Suspended.



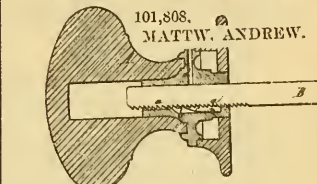
APPARATUS FOR LIGHTING
101,806. AND EXTINGUISHING GAS.
ALMON N. ALLEN.
RODNEY H. DEWEY.



101,807. A. C. ANCONA. OIL-CUP.



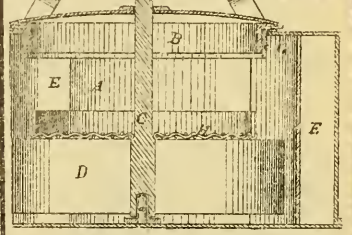
ATTACHING KNOBS TO SPINDLES.



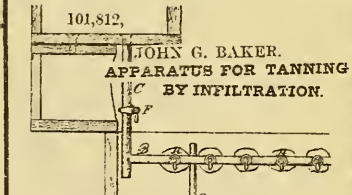
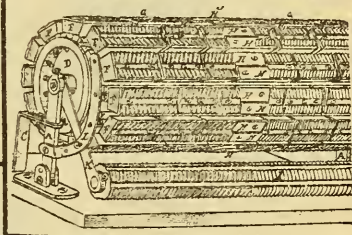
101,809. L. AUGS. ASPINWALL.
CORN-HUSKERS.



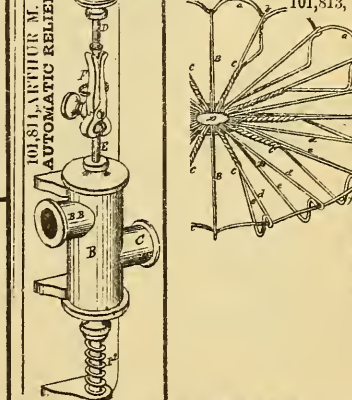
101,810. MAHLON B. ATKINSON.
CHURNS.



101,811. SOLOMON H. AUSTIN.
CLOTH-STRETCHING MACHINES.

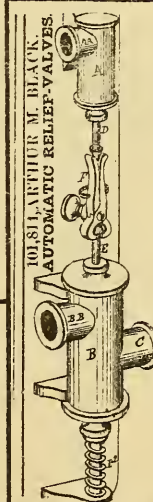
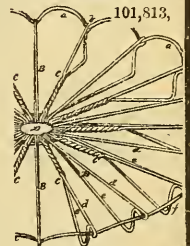


101,812. JOHN G. BAKER.
APPARATUS FOR TANNING
BY INFILTRATION.



JONAH H. BIGELOW.
IMPROVED STAND
FOR TEA AND
COFFEE-POTS.

101,813.

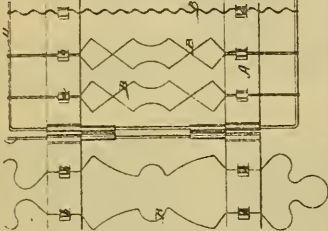


101,814. ARTHUR M. BLACK.
AUTOMATIC RELIEF-VALVES.

101,815, G. H. BLAKESLEY.
TUBULAR SHAFTS FOR CLOCKS.



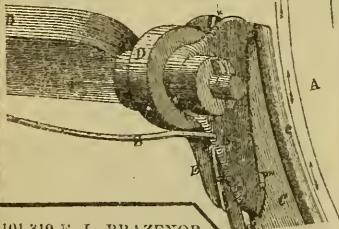
101,816, W. R. BOERNER.
WIRE-WORK FOR RAILINGS, &c.



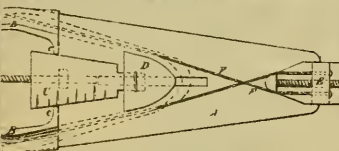
101,817, SAMUEL BOORN.
MECHANISM FOR STOPPING
THE SHUTTLE IN LOOMS.



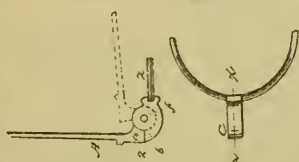
101,818, WILLIAM H. BRADT.
BRAKE-BLOCK FOR WAGONS.



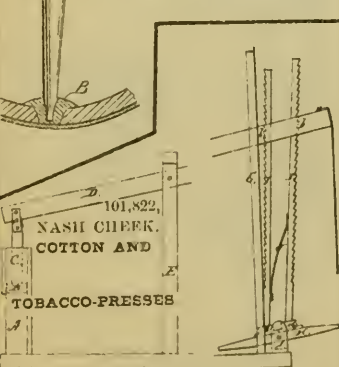
101,819, E. L. BRAZENOR.
HORSE-COLLAR BLOCK.



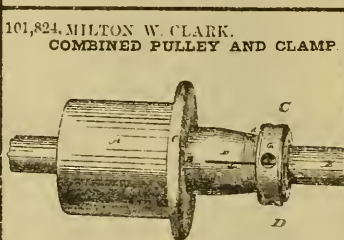
101,820, CHAUNCEY BUCKLEY.
SPECTACLE-FRAMES.



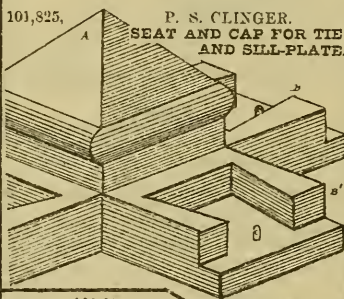
101,821, A. J. CARLETON.
SPOKE-SOCKET FOR
CARRIAGE WHEELS.



101,823, JOHN H. CHEEVER.
INDIA-RUBBER CARPETING
AND EMBOSSED MATTING.



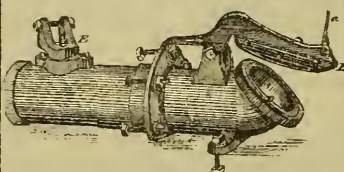
101,824, MILTON W. CLARK.
COMBINED PULLEY AND CLAMP.



101,826,
JOHN JOSEPH CLOES.
BREECH-LOADING
FIRE-ARMS.

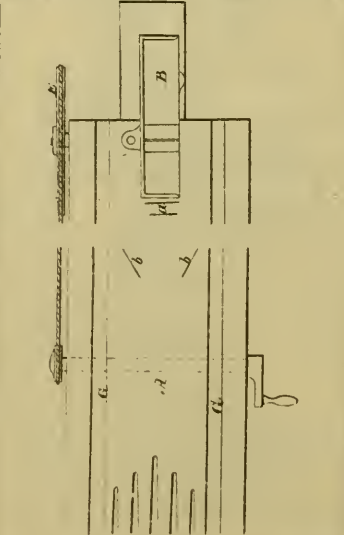


101,827, MARSHALL COWING.
RAILROAD-TANK VALVES.

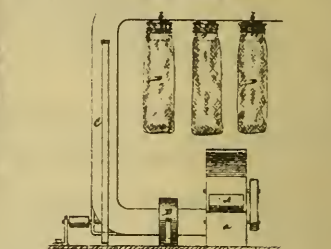


JAMES F. CRANSTON,
JEREMIAH H. BANKS.
101,828, JOHN M. INGERSOLL.
MANUFACTURE OF ARTIFICIAL FUEL.

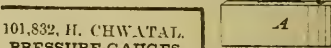
101,829, C. O. CROSBY.
MACHINE FOR ARRANGING NEEDLES.



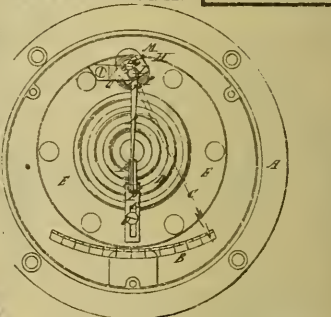
101,830, S. CRUMP.
BRONZE COLLECTING ATTACHMENT
TO BRONZING MACHINES.



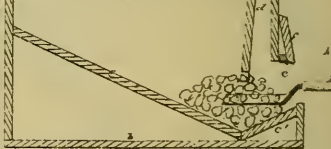
101,831, GEO. CUSTER.
TOE-CALK FOR HORSESHOES.



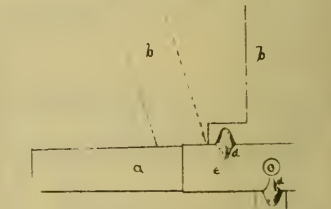
101,832, H. CHWATAL.
PRESSURE-GAUGES.



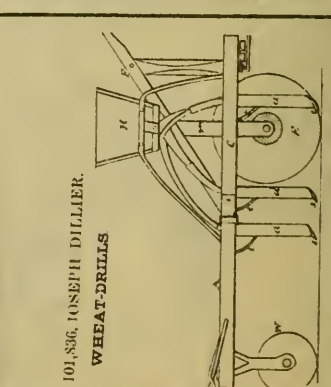
BENJAMIN RICHARD DEACON, 101,833.
COAL-BOX.



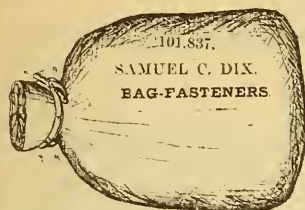
101,834,
JOHN DEEBLE.
PERCH SPRING-CLIPS.



101,835, CHAS. DIEBOLD, MANUFACTURE
OF BUILDING-BLOCKS FROM SLAG.

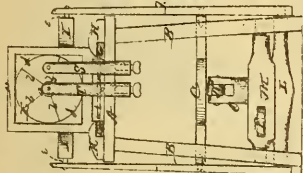


101,836, JOSEPH DILLER.
WHEAT-DRILLS.

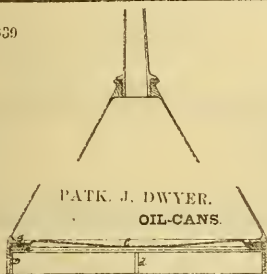


101,837.
SAMUEL C. DIX.
BAG-FASTENERS

101,838, R. J. DODD.
APPLE-CORER AND SLICER.



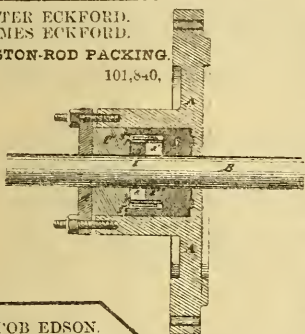
101,839



PATR. J. DWYER.
OIL-CANS.

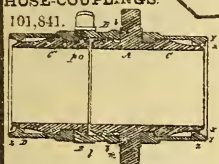
PETER ECKFORD.
JAMES ECKFORD.
PISTON-ROD PACKING.

101,840.

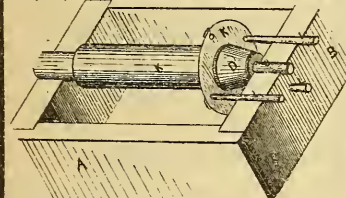


JACOB EDSON.
HOSE-COUPINGS.

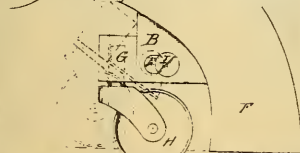
101,841.



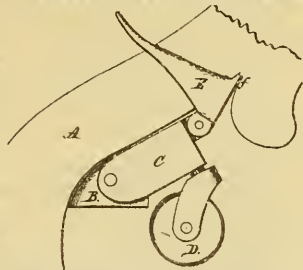
JACOB EDSON
101,842. MOLDS FOR CASTING PIPE.



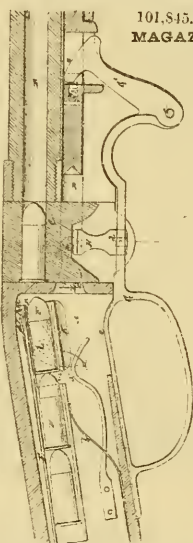
CASTERS FOR SEWING-MACHINES.
101,843, WILLIAM P. ELLIOTT.



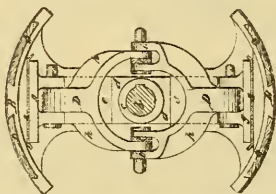
101,844, WILLIAM P. ELLIOTT
CASTERS FOR SEWING-MACHINES.



101,845, DARWIN ELLIS.
MAGAZINE FIRE-ARMS



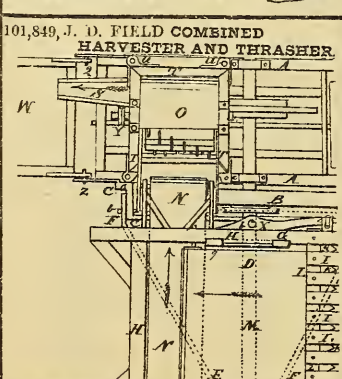
101,846, GEO. D. EMERSON.
FRICTION-CLUTCH FOR ENGAGING
AND DISENGAGING GEARING.



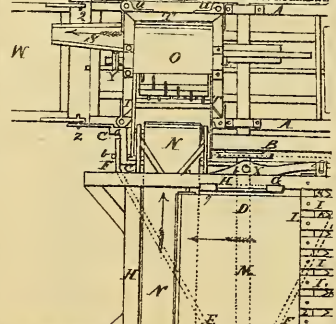
CHRISTIAN L. FEHRENSSEN.
101,848. PERFUME EJECTOR



HORACE EVERETT.
SHEET-METAL CANS.

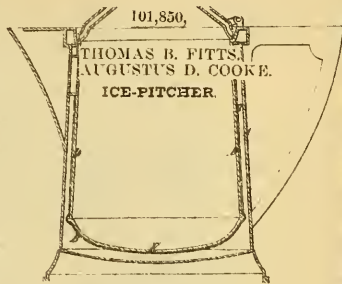


101,849, J. D. FIELD COMBINED
HARVESTER AND THRASHER

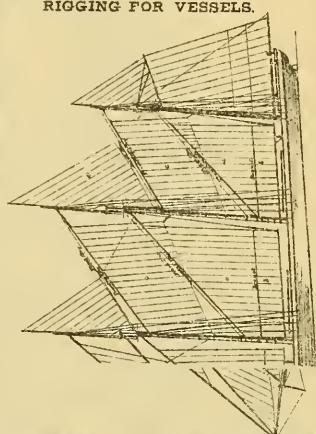


101,850.

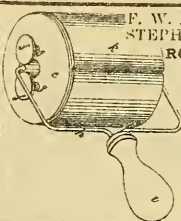
THOMAS B. FITTS.
AUGUSTUS D. COOKE.
ICE-PITCHER.



101,851, R. B. FORBES.
RIGGING FOR VESSELS.

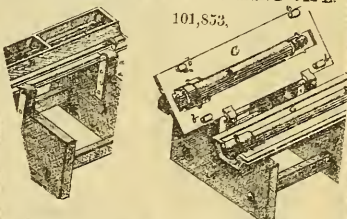


F. W. FROST, 101,852,
STEPHEN L. HAYWARD.
ROTARY BLOTTERS.

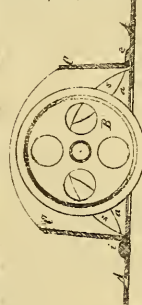


FREDERIC FULLER.
APPARATUS FOR MOLLING PIPE.

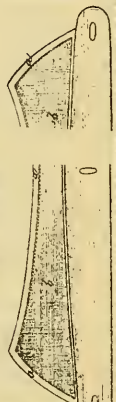
101,853.

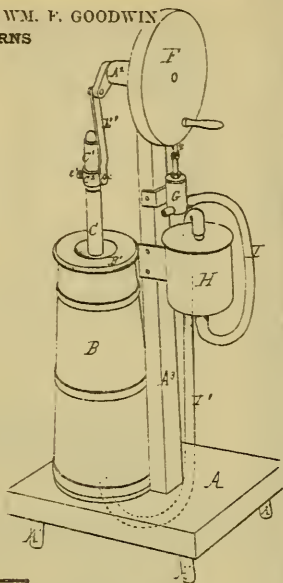
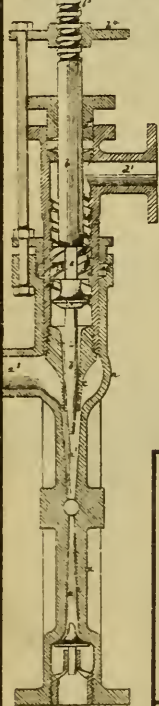
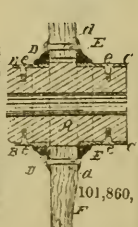
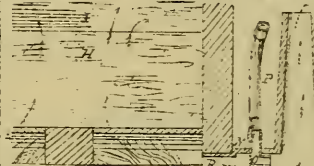


OLIVER S. GARRETSON. SASH-PULLEYS.
101,854.

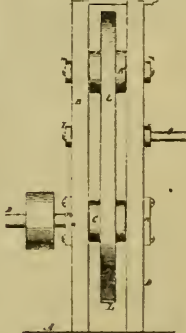


GUSTAVUS ADOLPHUS GOLDSMITH
101,855, IN PAPER COLLARS.

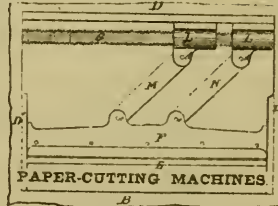
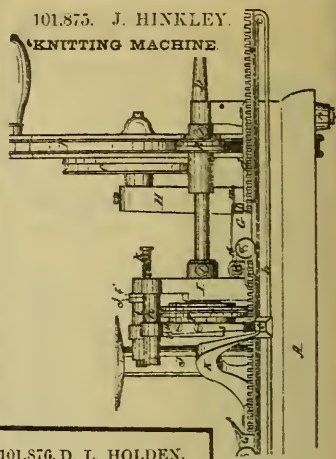


101,856, WM. F. GOODWIN.
CHURNS101,857, PETER R. GOTTSTEIN.
IMPROVED CANDLE FOR MINERS' USE.101,858, JAMES GRESHAM.
GIFFARD INJECTOR.A. ETIENNE GUYOT.
101,859, WINDING WATCHES.JOHN WILLIAM GUIDER.
CARRIAGE-WHEELS.101,861, STUART GWYNN. COMPOSITION
OF MATTER CALLED "METALINE."
FOR JOURNALS, BEAR-INGS, &c.101,862, STUART GWYNN. IMPROVED
COMPOSITION OF MATTER CALLED
"METALINE." FOR JOURNALS, BEAR-
INGS, &c.101,863, STUART GWYNN. IMPROVED
COMPOSITION OF MATTERS CALLED
"METALINE," FOR JOURNALS, BEAR-
INGS, &c.101,864, STUART GWYNN. IMPROVED
COMPOSITION OF MATTER CALLED
"METALINE," FOR JOURNALS, BEAR-
INGS, &c.101,865, STUART GWYNN.
IMPROVED COMPOSITION OF
MATTER CALLED "METALINE."
FOR JOURNALS, BEAR-INGS, &c.101,866, STUART GWYNN.
IMPROVED COMPOSITION OF
MATTER CALLED "METALINE."
FOR JOURNALS, BEAR-INGS, &c.101,867, STUART GWYNN.
IMPROVED COMPOSITION OF
MATTER CALLED "METALINE."
FOR JOURNALS, BEAR-INGS, &c.101,868, STUART GWYNN.
IMPROVED COMPOSITION OF
MATTER CALLED "METALINE."
FOR JOURNALS, BEAR-INGS, &c.101,869, S. GWYNN PROCESS OF
FORMING COMPOSITIONS OF MATTER
CALLED METALINE, FOR JOURNALS,
BEARINGS, STEPS, AND OTHER
ARTICLES LIABLE TO FRICTION.101,870, WM. SAMUEL HALL.
KILNS FOR BURNING BRICKS, &c.

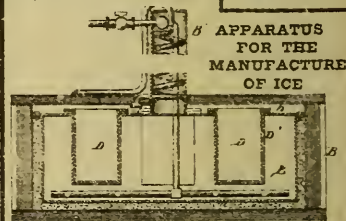
101,871, WM. R. HAMILTON. TUBE-WELLS.

GEORGE B. HAMLIN
DRIVING-GEARING.
101,872.

101,873, ANSON HARDY.

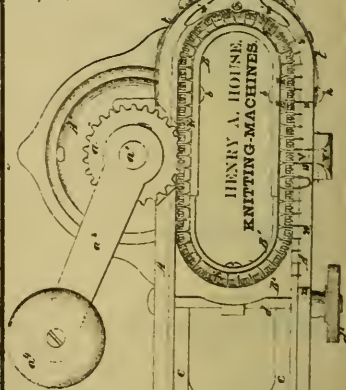
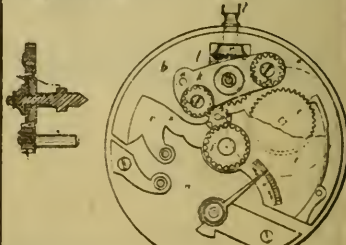
101,874, RAILWAY-CAR BRAKES
AARON HIGLEY.101,875, J. HINKLEY.
KNITTING MACHINE

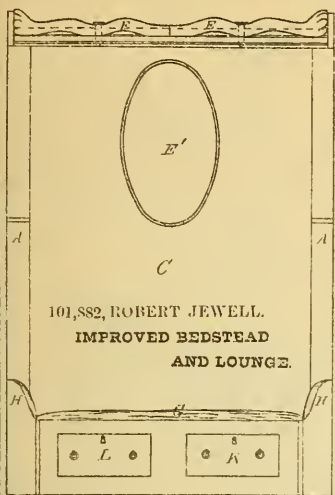
101,876, D. L. HOLDEN.

JOHN W. HOLLINGSWORTH.
MOLDS FOR METALS

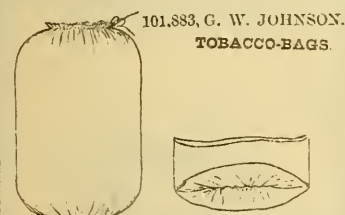
101,877,

101,878.

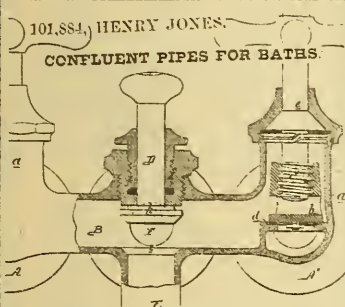
101,879, THEODORE HYATT. LINING
AND COVERING REFRIGERATORS
AND REFRIGERATOR-CARS.101,880, SARDIS W. ISHAM.
PAINTS AND PIGMENTS.101,881, CHAS. E. JACOT.
STEM-WINDING WATCHES.



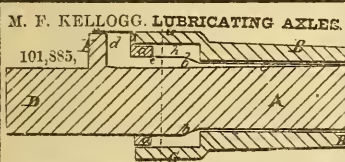
101,882, ROBERT JEWELL.
IMPROVED BEDSTEAD
AND LOUNGE.



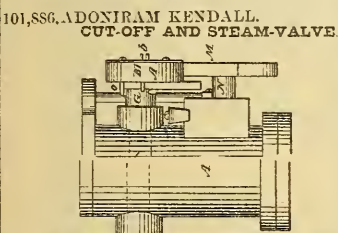
101,883, G. W. JOHNSON.
TOBACCO-BAGS.



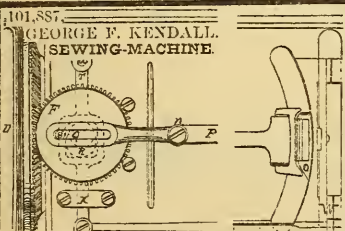
101,884, HENRY JONES.
CONFLUENT PIPES FOR BATHS.



M. F. KELLOGG, LUBRICATING AXLES.
101,885.

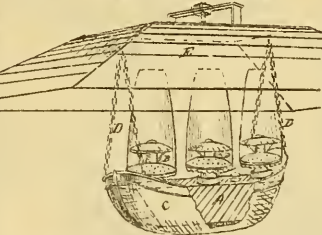


101,886, ADONIRAM KENDALL.
CUT-OFF AND STEAM-VALVE.

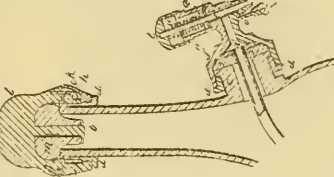


101,887,
GEORGE F. KENDALL.
SEWING-MACHINE.

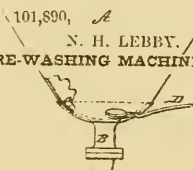
101,888, RUDOLPH KLEEMANN.
LAMPS FOR BILLIARD-TABLES.



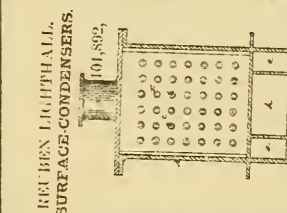
JOHN FREDERIC KUBLY. 101,889.
CHARLES FREDERIC CRAWLSHEIM.
BOTTLES FOR GASEOUS LIQUIDS.



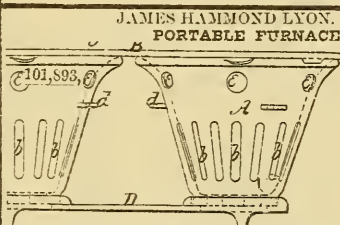
101,890,
N. H. LEBBY.
ORE-WASHING MACHINES.



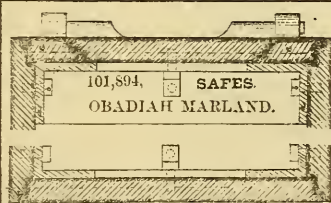
T. GRAHAM LIEBENAU ENAMEL FOR
A. G. HEANEY. 101,891, CLOCK-DIALS



REUBEN McCHESNEY.
SURFACE-CONDENSERS.
101,892.

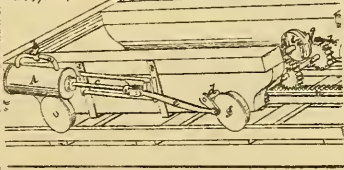


JAMES HAMMOND LYON.
PORTABLE FURNACE
101,893.

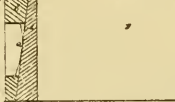


101,894, SAFES.
OBADIAH MARLAND.

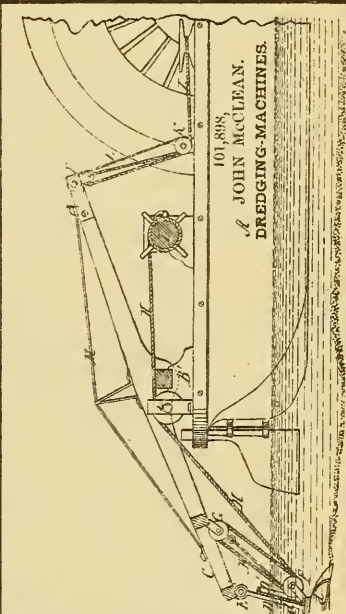
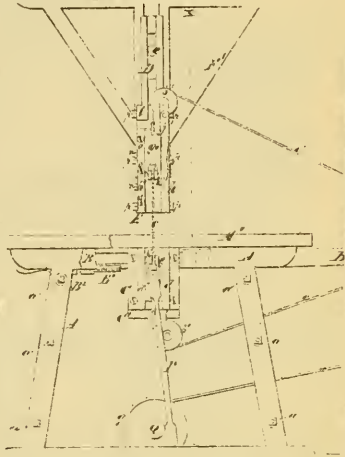
SYLVESTER MARSH.
ATMOSPHERIC BRAKES FOR RAILWAY
CARS.
101,895.



101,896, ANGUS McALPIN.
BRICK AND OTHER MOLDS.

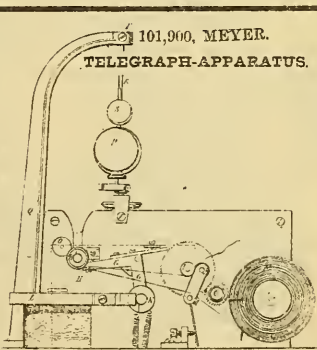


101,897, REUBEN McCHESNEY.
SCROLL-SAWS.



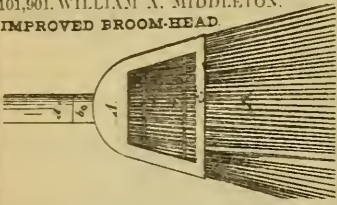
101,898,
JOHN McCLEAN.
DREDGING-MACHINES.

101,899, LEVIN ALBERT MESSINGER.
PAINT OR COATING
FOR SHIPS' BOTTOMS.



101,900, MEYER.
TELEGRAPH-APPARATUS.

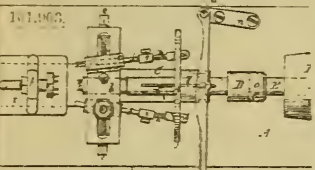
101,901. WILLIAM A. MIDDLETON.
IMPROVED BROOM-HEAD



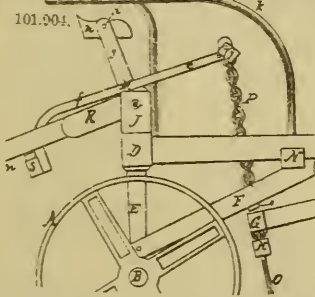
LEON EUGENE CAMERON MOORE.
JAMES SHOCKEY HAMILTON.
101,902, LAMPS



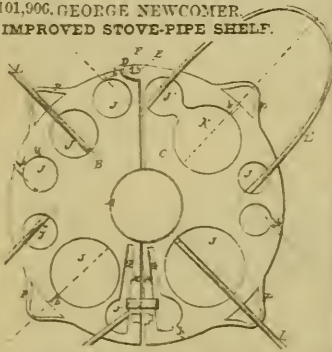
JOHN I. MUNROE. BUNG-CUTTER.



J. L. MUNROE. HORSE HAY-RAKES



101,905, JOHN MURPHY.
INDIA RUBBER PACKING.
BELTING AND HOSE.

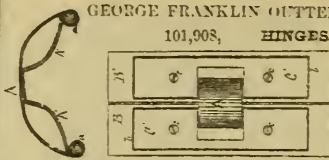


101,907,
J. H. O'NEIL.

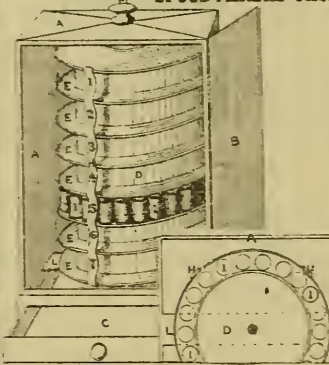


GEORGE FRANKLIN OUTTEN.

101,908, HINGES



101,909, ALBION PARSONS. IMPROVED
SPOOL-THREAD CASE.

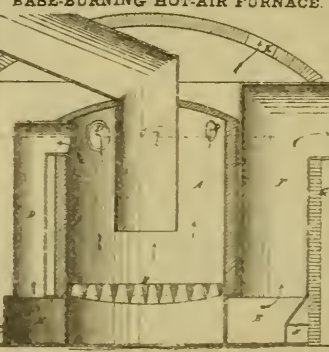


101,910, JULIA W. D. PATTEN.

IMPROVED
EXTENSION TRAVELING-BAG



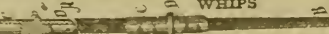
101,911, JOHN G. PORTER.
BASE-BURNING HOT-AIR FURNACE.



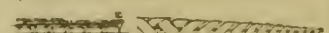
101,912, ADDISON C. RAND. WHIPS.



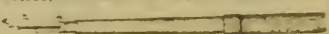
101,913, A. C. RAND WHIPS



101,914, ADDISON C. RAND WHIPS

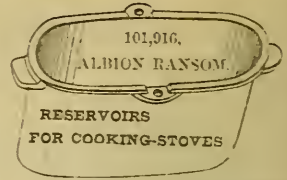


101,915, ADDISON C. RAND WHIPS

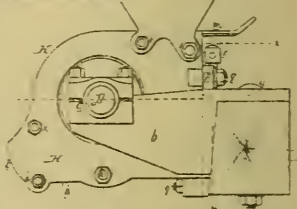


101,916,
ALBION RANSOM.

RESERVOIRS
FOR COOKING-STOVES

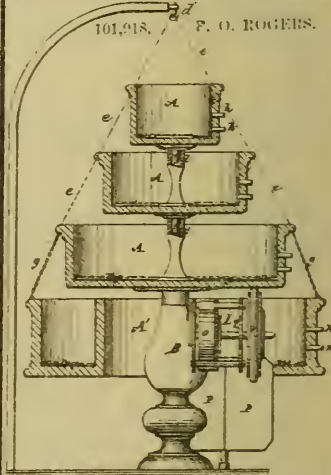


CHARLES HENRY ROBERTS.
101,917,
GRINDING-MILLS

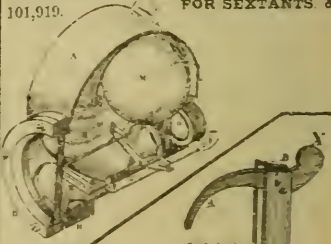


ELEVATED AND SUSPENDED GARDENS

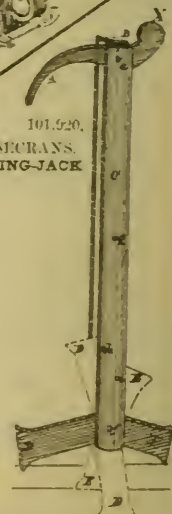
101,918, F. O. ROGERS.

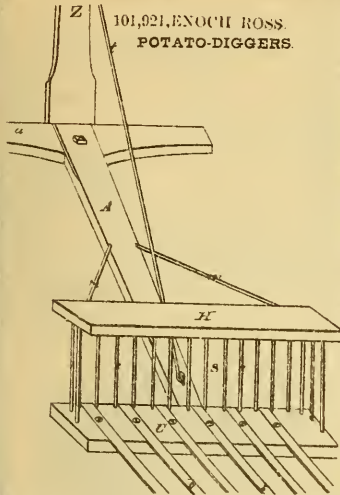
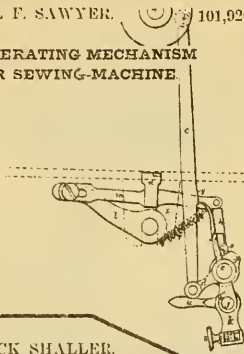
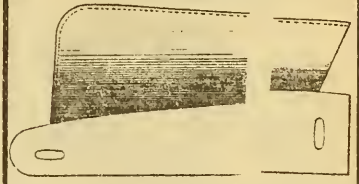
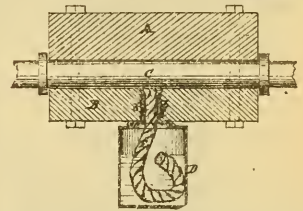
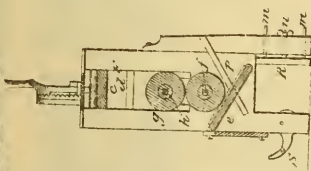
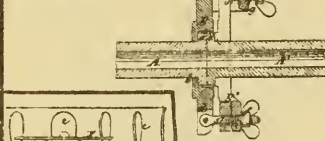
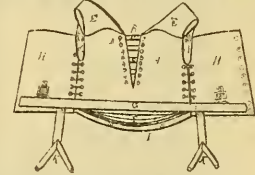
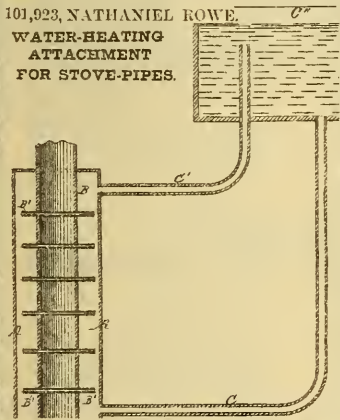
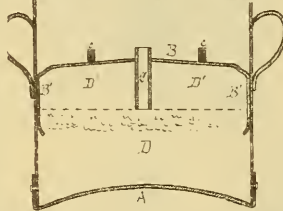
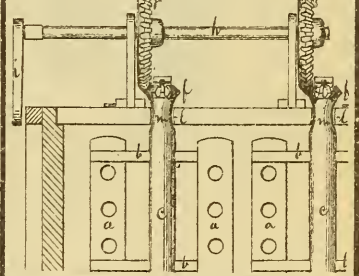
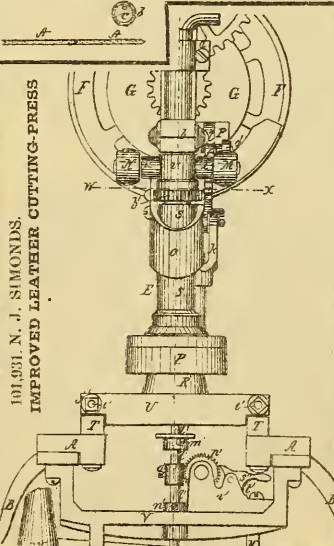
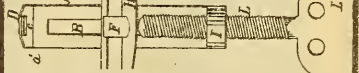
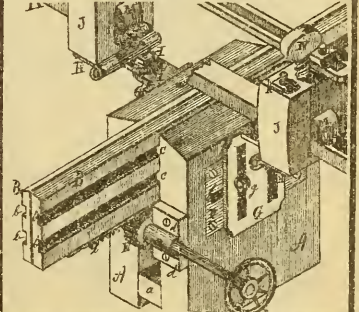


JOSEPH A. ROGERS
ARTIFICIAL HORIZON
FOR SEXTANTS, &c
101,919.

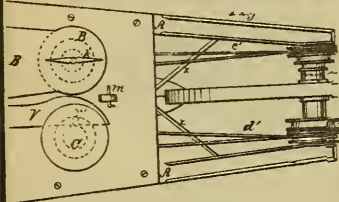


101,920,
JOSIAH ROSECRANS.
IMPROVED LIFTING-JACK

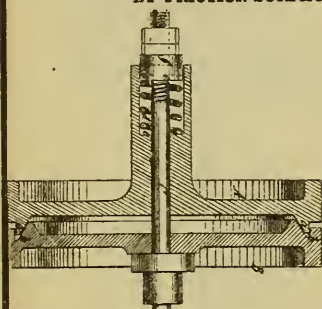


101,921, ENOCH ROSS.
POTATO-DIGGERS.NOWELL F. SAWYER. 101,926,
FEED-OPERATING MECHANISM
FOR SEWING-MACHINE.101,932, DAVID FRANCIS SMITH.
PAPER-COLLARS.101,933, THOMAS S. SPEARMAN.
LUBRICATING AXLE-BOXES.101,922, JOHN C. ROTH.
IMPROVED CLOTHES-WRINGER.FREDERICK SHALLER.
101,927, COUPLINGS
FOR HOSE AND PIPES.101,934, LINDA SPIGELMYER.
CHILD'S BODY-BRACE AND SUPPORTER.101,923, NATHANIEL ROWE.
WATER-HEATING
ATTACHMENT
FOR STOVE-PIPES.101,929, A. H. W. SHEPARD.
METALLIC CAN-COVERS.101,935, A. RADISSON ST. CYR.
TREATING FATTY MATTERS FOR THE
MANUFACTURE OF CANDLES.101,936, THOMAS B. STEPHENS.
CHURNS.BENJAMIN F. RYDER. CASTERS FOR
101,924, SEWING-MACHINES.101,925,
THOMAS SANDBACH.
JOSEPH W. FOWLER.
IMPROVED WELL-BORER.101,930, E. G. SHORT.
C. OBERLY.
CUTTER-BARS FOR HARVESTERS.101,931, N. J. SIMONDS.
IMPROVED LEATHER CUTTING-PRESS.101,937, JOHN STOKES.
THOMAS BENNETT.
SPRING-VISE FOR
GUN-LOCKS.101,938, R. H. STRONG.
SAW-FILING MACHINE.

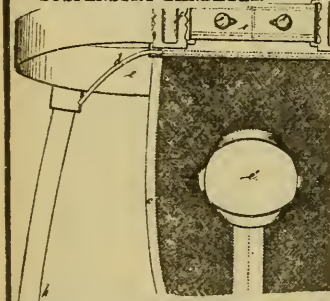
101,939, W. D. STROUD.
SEED-PLANTER AND CULTIVATOR.



101,940, BENJN. TATHAM.
REGULATING POWER CONVEYED
BY FRICTION-SURFACES.

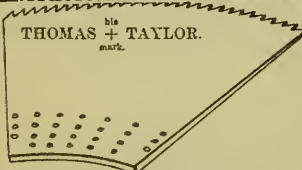


101,941, JOHN L. TAYLOR
SUSPENSORY BANDAGES.

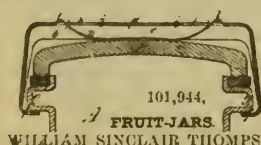
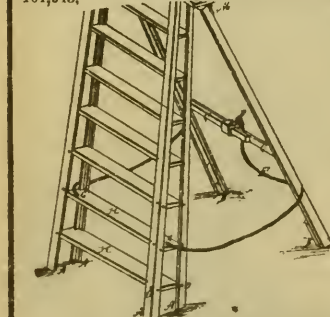


101,942, IMPROVED METHOD OF
MANUFACTURING CIRCULAR SAWS.

THOMAS + TAYLOR.
MADE.

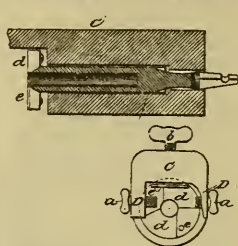


JOHN A. THOMPSON.
101,943, IMPROVED LADDER.

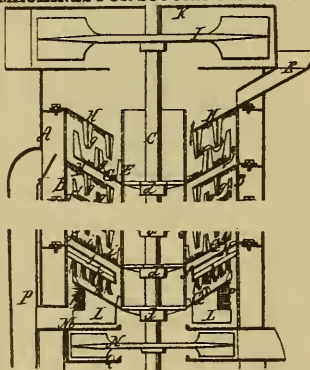


101,944, FRUIT-JARS.
WILLIAM SINCLAIR THOMPSON.

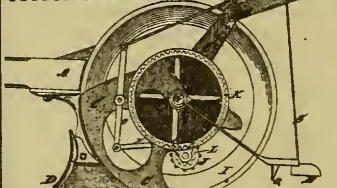
101,945, C. W. TOMPKINS.
DEVICE FOR TENONING SPOKES.



101,946, B. T. TRIMMER.
MACHINES FOR SCOURING GRAIN, &c.



101,947, JOSEPH TRUMP.
COTTON-SEED PLANTERS.



101,948, FERRAND G. WALLACE.
WHEELS FOR VEHICLES.

THEOPHILUS WEAVER.
HAND CORN-SHELLERS.

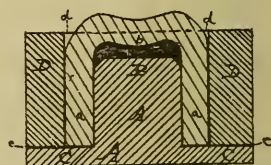


VALENTIN WEISMANTEL.
101,950, GRAIN-SCOURERS.

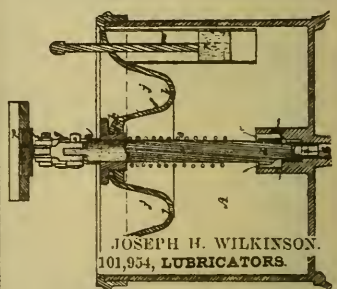
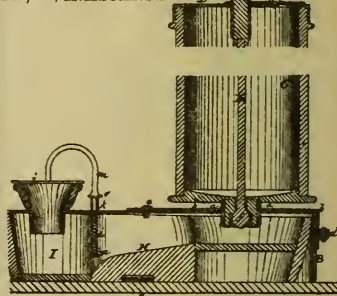


101,951, WM. WHARTON, JR.
RAILWAY-SWITCHES.

101,952, LE ROY S. WHITE.
IMPROVED DIE FOR FORMING
CARRIAGE-SHACKLES.

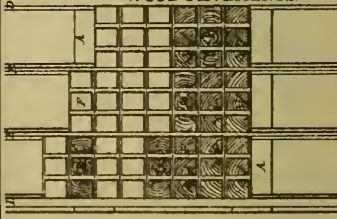


CHARLES H. WIGHT.
101,953, INKSTANDS.



JOSEPH H. WILKINSON.
101,954, LUBRICATORS.

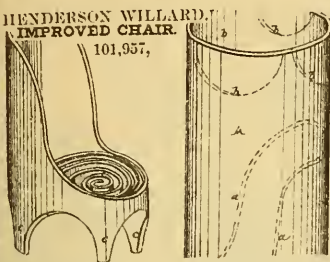
101,955, JOSEPH H. WILKINSON.
WOOD PAVEMENTS.



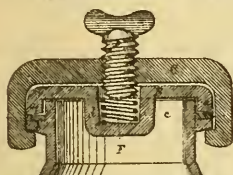
101,956, H. WILLARD.
BARREL



HENDERSON WILLARD.
IMPROVED CHAIR.
101,957,



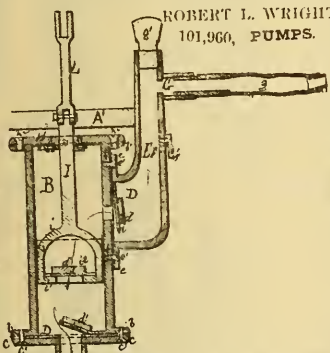
101,958, THEODORE F. WOODWARD.
FASTENINGS FOR FRUIT-JARS.



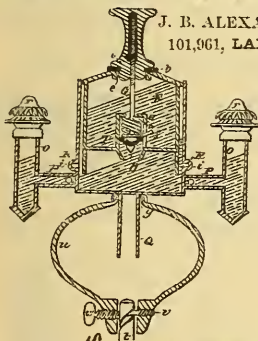
101,959, ALEXANDER WRIGHT.
ADJUSTABLE CARRIAGE-SEATS.



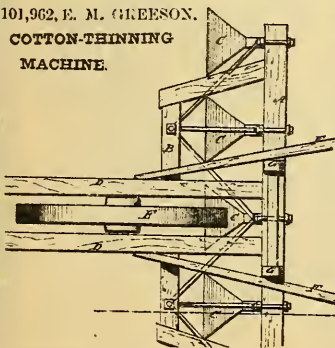
ROBERT L. WRIGHT.
101,960, PUMPS.



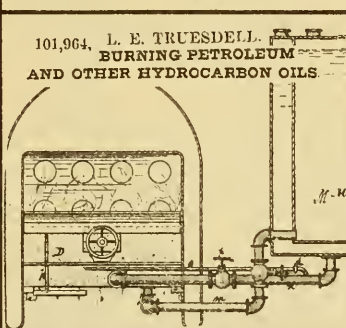
J. B. ALEXANDER.
101,961, LAMPS.



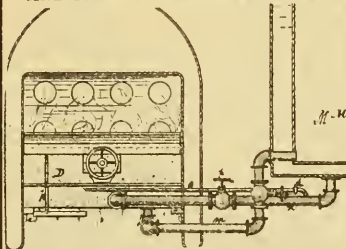
101,962, E. M. GREESON.
COTTON-THINNING
MACHINE.



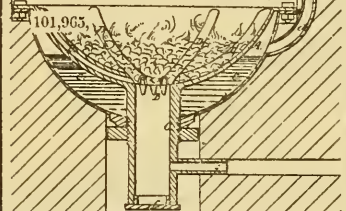
101,963, WILLIAM HARRIS.
A. WOOLEVER.
CONVERTING CAST-IRON INTO STEEL.



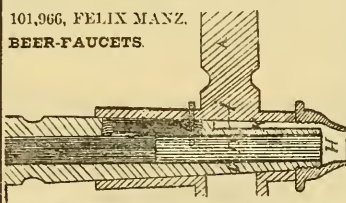
101,964, L. E. TRUESDELL.
BURNING PETROLEUM
AND OTHER HYDROCARBON OILS.



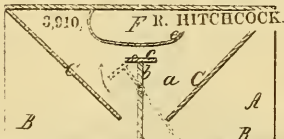
J. B. MORRIS. FURNACES.



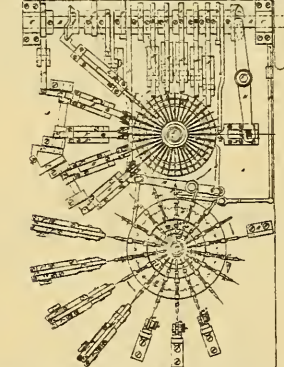
101,966, FELIX MANZ.
BEER-FAUCETS.



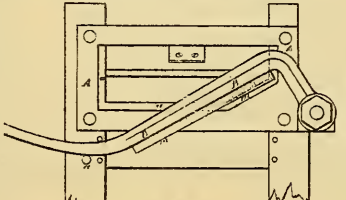
RAILROAD-CAR VENTILATOR.



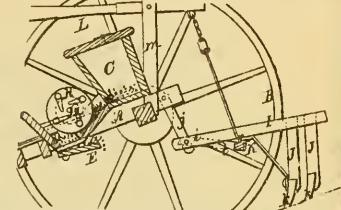
3,911, C. O. CROSBY IMPROVED
MACHINE FOR MAKING NEEDLES.



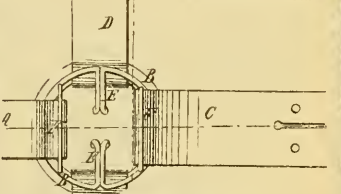
3,912, W. Gale Straw Cutter.



3,913, FREDERICK H. MANNY.
SEEDING-MACHINES.



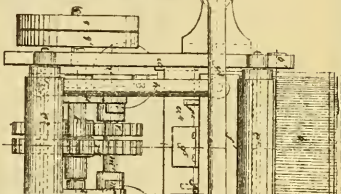
3,914, O. B. NORTH & CO.
By SAMUEL BRUCE, Sec'y.
IMPROVED
TRACE-HOLDER.



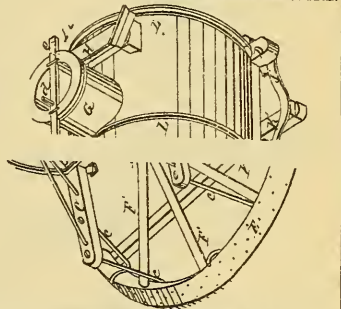
3,915, MORTON JUDD,
A. D. JUDD. SASH-FASTENERS.



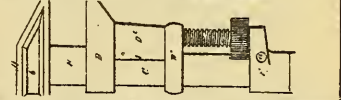
3,916, RUDOLF EICKEMEYER.
FELTING-MACHINES.



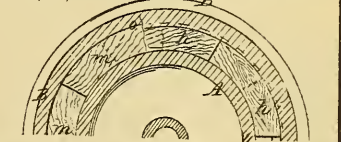
3,917, LOREY F. BANCROFT.
STREET-SPRINKLERS.



3,918, LORING COES. WRENCHES.



G. NATORP. RAILWAY-CAR WHEELS.
3,919,



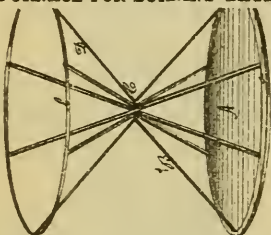
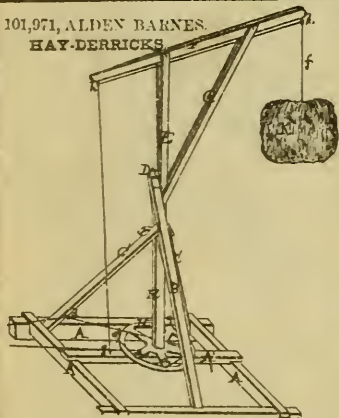
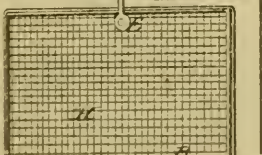
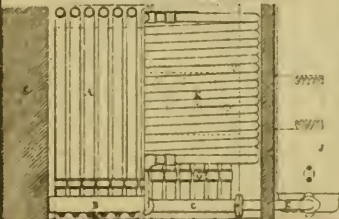
3,920, SHELDON INGALLS KELLOGG,
CONVERTING IRON INTO STEEL

ILLUSTRATIONS OF PATENTS

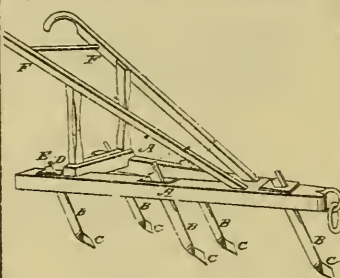
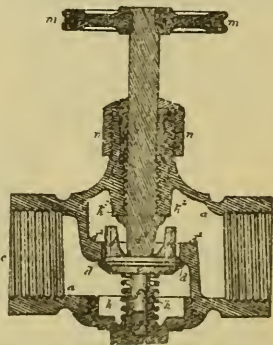
ISSUED FROM

THE UNITED STATES PATENT OFFICE

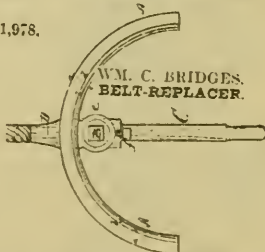
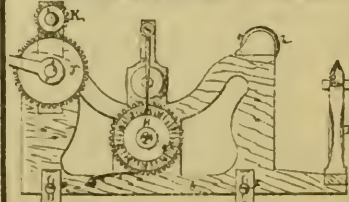
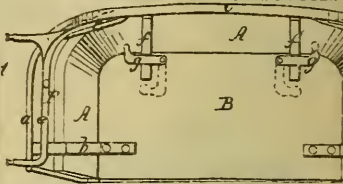
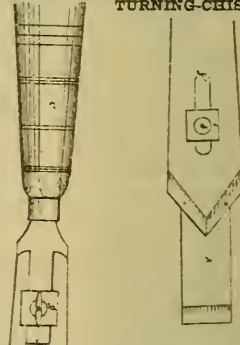
APRIL 19, 1870.

101,967, I. J. W. ADAMS. APPARATUS
FOR MEASURING BOARDS.101,968, JOHN AMICK. SPIDER-
FURNACE FOR BURNING BAGASSE.101,969, HAYDN M. BAKER.
MANUFACTURE OF
STEEL FROM CAST OR PIG-IRON.101,970, M. G. BALFOUR.
ROOFING MATERIAL.101,971, ALDEN BARNES.
HAY-DERRICKS.101,972,
ORLANDO BARR. D
VENTILATOR.101,973, J. F. BELLEVILLE.
STEAM-GENERATOR.101,974, MARTIEN H. BÖTTGER.
COMPOUND FOR BOOTS AND SHOES.101,975, JAMES E. BOUTELLE.
LATHE-SPINDLE.

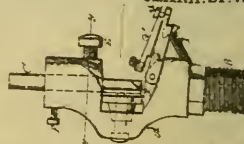
101,976, JACOB BOWER. CULTIVATORS.

101,977, JOSEPH BREEDEN.
STOP-COCKS FOR STEAM AND LIQUIDS.

101,978.

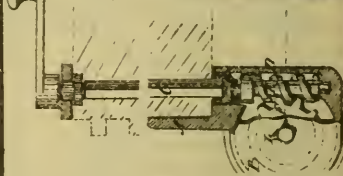
WM. C. BRIDGES.
BELT-REPLACER.101,979, T. M. BRINTALL.
CLOTH-MEASURING APPARATUS.101,980, IRA BRONSON.
SHIFTING RAIL FOR BUGGIES.101,981, R. P. BUTTLES.
SALMON SWEET.
TURNING-CHISEL.

101,982, ERASTUS V. CLARK. SAW-SETS.

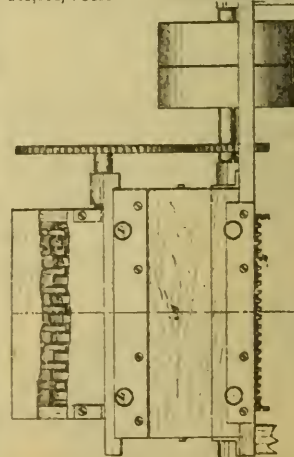


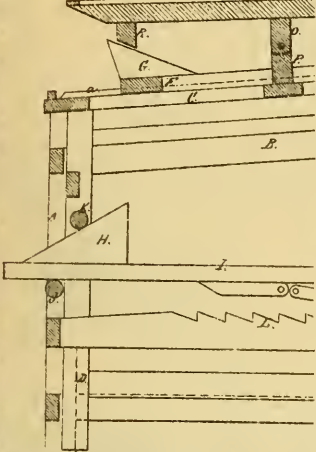
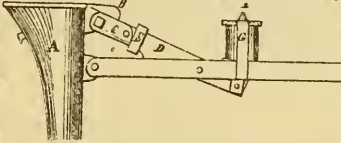
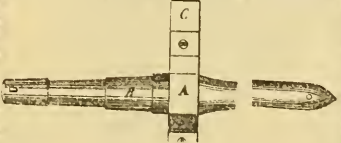
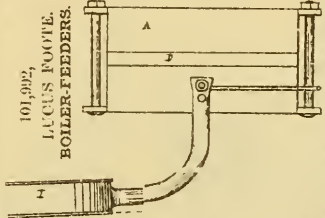
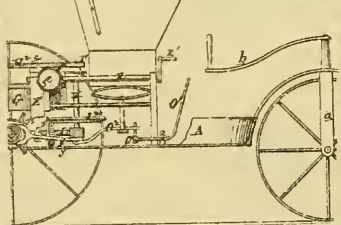
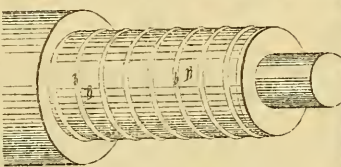
101,983, A. C. CORNELL.

SHUTTER-WORKER.

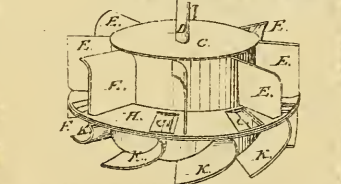


101,984, JOHN G. CURTIS. BARK-MILLS.

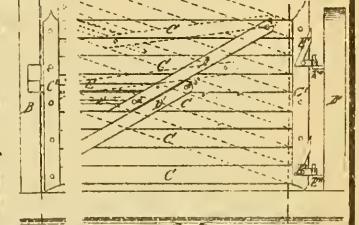


101,985, WILLIAM W. DAVES.
CAMERA-STAND.101,990, JOHN F. FISHER.
WHEAT-DRILLS.101,991, JOHN F. FISHER.
AXLES FOR WHEAT-DRILLS.101,992,
LUCAS FOOTE.
BOILER-FEEDERS.101,993,
F. J. FORSYTH.
VELOCIPEDE.101,994, JAMES B. FORSYTH.
MANUFACTURE OF ELASTIC ROLLS.

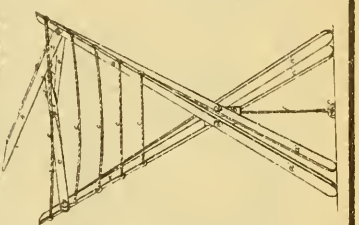
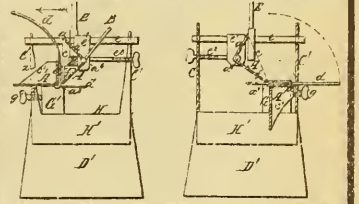
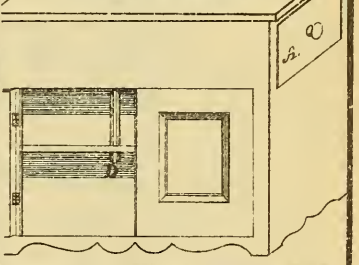
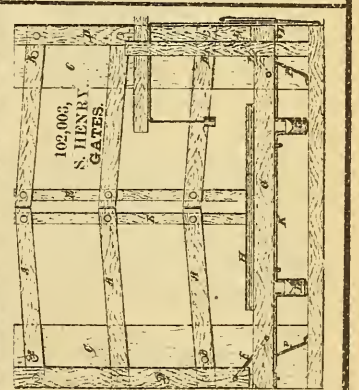
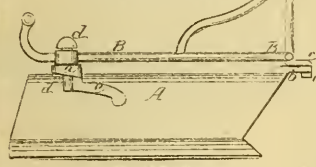
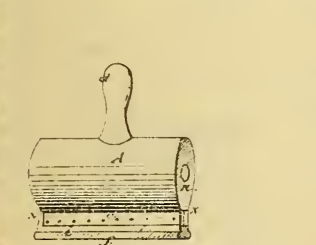
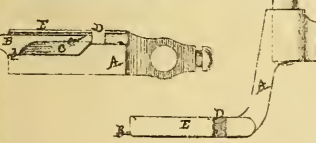
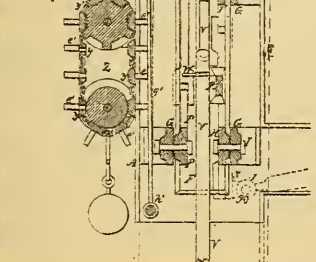
101,995, JOHN H. GLEIM. PUMP-SPOUTS.

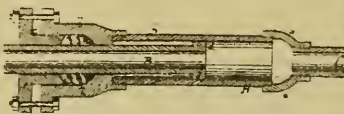
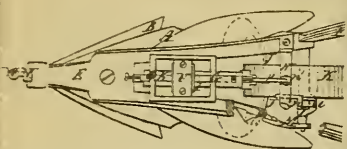
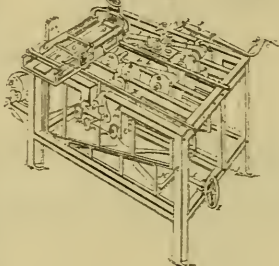
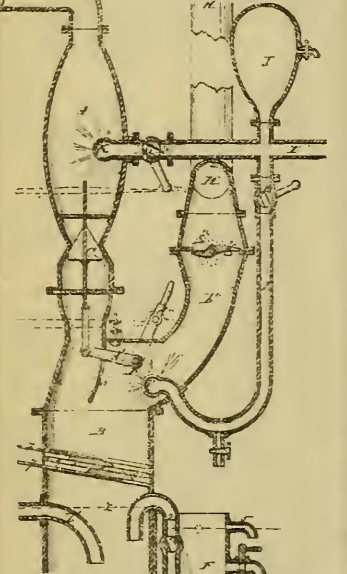
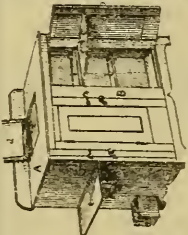
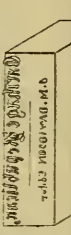
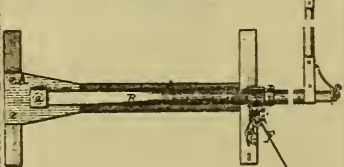
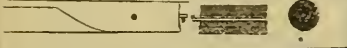
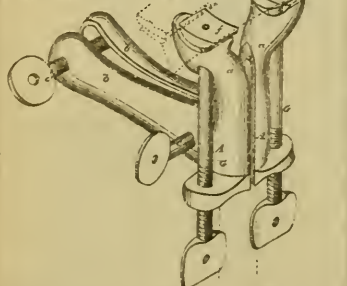
101,996, D. W. GLENDINNING.
TURBINE WATER-WHEELS.

101,997, HERMAN GREVE. GUN-WIPERS.

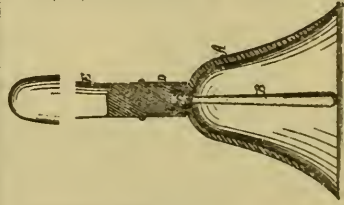
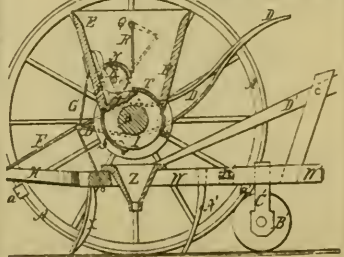
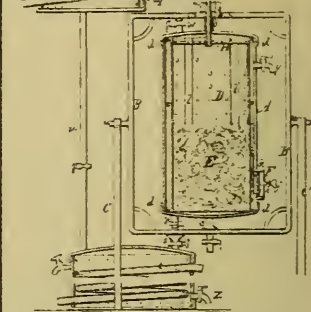
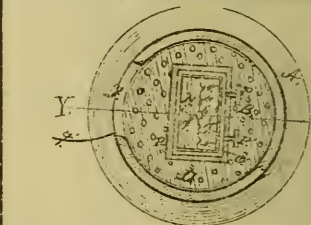
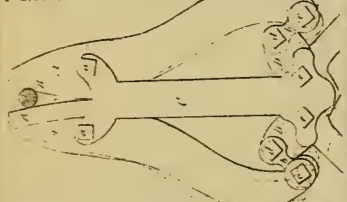
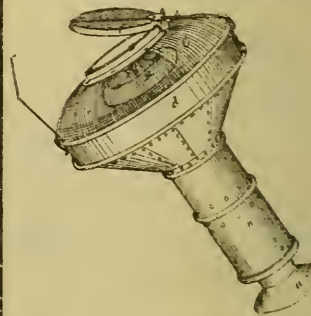
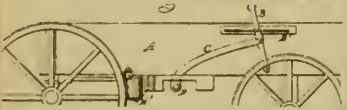
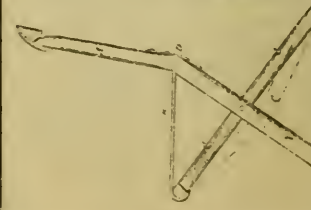
101,998, MICHAEL GUNSHENAN.
FARM-GATES.

101,999, J. C. HAINES. CLOTHES-DRIER.

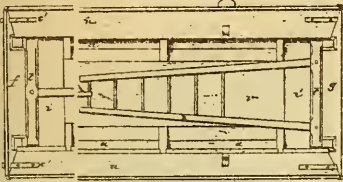
102,000, ANDREW J. HANNA.
SINGLE-TREE.102,001, C. C. HARE.
SHEET-METAL-BENDING MACHINE.102,002,
CHRISTER L. HEDELL.
SINK AND WASH-STAND.102,003,
S. HENRY
GATES.101,986, CASPAR DISSER.
SHIFTING-RAIL FOR
CARRIAGE-SEATS.101,987, SAM'L. G. DUGDALE.
SLATE-WASHERS.101,988, JOHN V. D. ELDREDGE.
HEMMER FOR SEWING-MACHINES.101,989,
ALBERT R. FIELD.
LOOM.

102,004, C. C. HIPPENSTIEL.
CORN-PLANTER102,011, DEDRICK JORDAN,
JOSEPH DILL.
DOVETAILING-MACHINE102,005, JOHN HOUPPT.
STEAM-CONDENSER.102,012, WILLIAM KELLY.
CLOSET AND BED.102,013, A. N. KELLOGG,
J. J. VAN SCHOCK.
PRINTERS' FURNITURE.102,014, SAMUEL KENNEDY.
BOOT-JACK AND BRUSE.102,015,
RICHARD J. M. KING.
SWEEP HORSE-POWER.102,007,
LIVER'S HOLE WHIPS.102,008, A. B. HURD.
WAGON TIRE TIGHTENER.

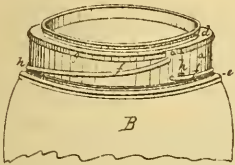
102,016, JOSEPH KINTZ, BELLS.

102,017, JAMES M. KIRACOFÉ.
CORN-PLANTERS102,015, J. W. KREPT'S APPARATUS
FOR REMOVING OILS, GREASE, GUMS,
AND THE LIKE, FROM COTTON AND
WOOLEN WASTE, AND
RECOVERING THE SAME.102,019, JAMES ALANSON LOOMIS,
CHARLES FREADRICK MOLL.
DENTAL APPARATUS FOR CASTING
PLATES FOR ARTIFICIAL TEETH.HIRAM L. HOWARD, BOLT-CUTTER.
102,006,102,020, HECTOR MACKINNON.
SMOKE-STACKS.102,021,
JONAH MARCHANT.
CHERRY-STONER.102,009, REUBEN HURD
WAGON-BRAKES102,010, J. E. JONES.
EXPANSION JOINT FOR PIPES102,022, GEO. McALEER.
FOLDING CHAIR.

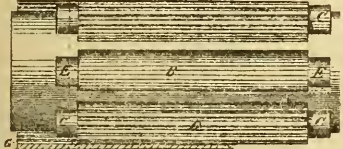
102,023, F. G. McCLELLAN.
COMBINED HAY-RACK AND
WAGON-BOX



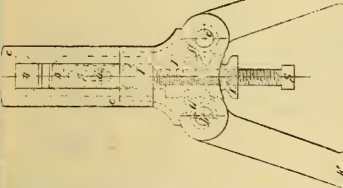
102,024, ROBERT McCULLY. FRUIT-JARS



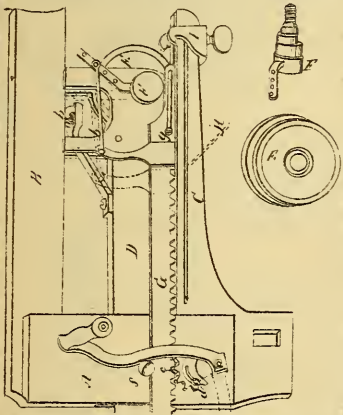
102,025, R. R. MCGREGOR.
AXLES AND THEIR BOXING.



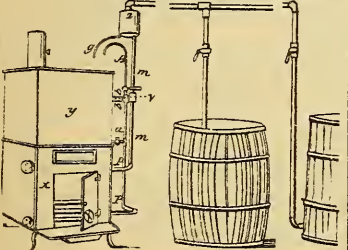
102,026, WILLIAM MENDHAM.
BOLT-CUTTER



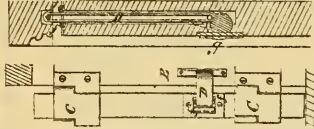
102,027, DAVID H. METCALF.
DANIEL SQUIER.
SHEET-METAL-GROOVING MACHINES.



102,028, HENRY W. MILLAR.
AGRICULTURAL STEAMER.

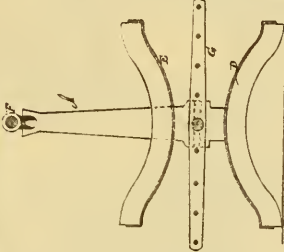


102,029, ABEL MISHLER. DOOR-SPRINGS

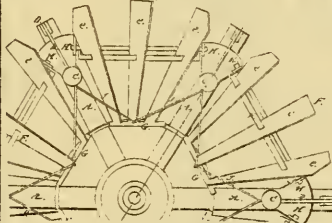


102,030, J. MOOG. METHOD OF
TREATING TRACING-PAPER.

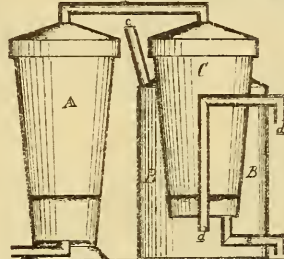
102,031, JAMES A. MORRISON.
COOKING-UTENSIL



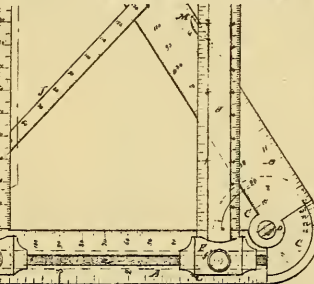
102,032, WILLIAM D. NICHOLS.
WINDMILLS



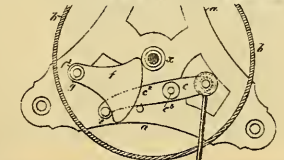
102,033, ALONZO NOTEMAN.
APPARATUS FOR REDISTILLING
AND RECTIFYING SPIRITS



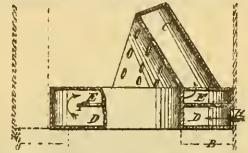
102,034, NELS OCKERLUND.
RULE AND CALCULATOR.



102,035, THOMAS PEMBERTON.
GEORGE ARTHUR PEMBERTON.
ALARM AND OTHER BELLS

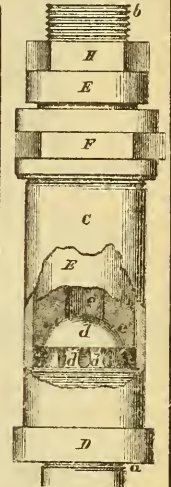
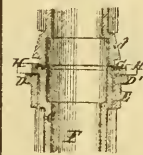
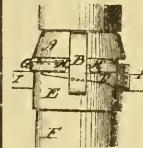


102,036, JOHN L. PFAU.
ATTACHMENT FOR HEATING-STOVES.



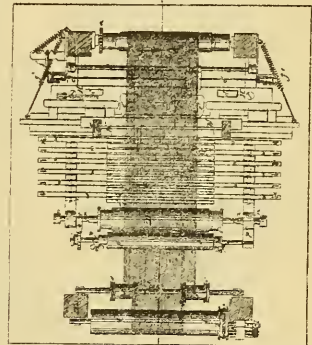
102,037, LOUIS H. PLUM.
STEAM-TRAP.

102,038,
CHARLES POWELL.
HOSE-COUPINGS.

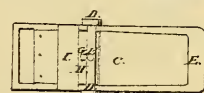


102,039, PIERRE FRANÇOIS RAMEL.
JEAN DROGAT.

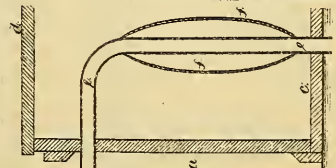
LOOM.



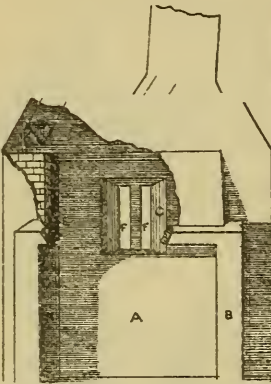
102,040, GEORGE REYER.
HARNESS-BUCKLES



102,041, M. REYNOLDS.
COOLING ALE AND BEER.



102,042,
FRANCIS RICHARDSON.
CHIMNEYS.



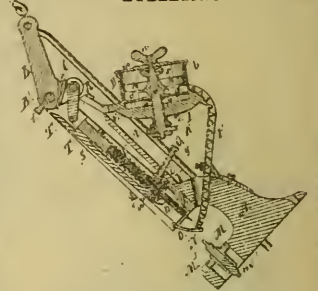
102,047, GEO. RUSTON, EGG PACKING.



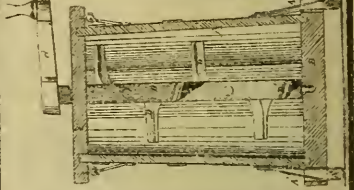
102,048, J. H. SANFORD.
SHOEMAKERS' EDGE-PLANES.



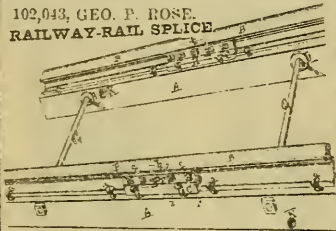
102,054, ELIJAH SHAW.
EYELETING-MACHINES



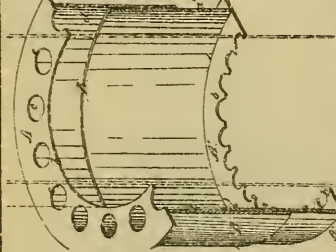
102,055, W. S. SHOEMAKER.
BUTTER-WORKER



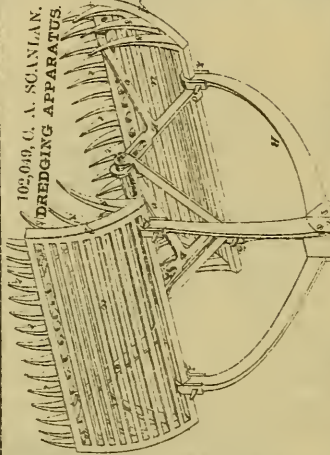
102,043, GEO. P. ROSE.
RAILWAY-RAIL SPICE



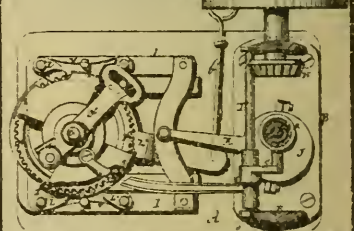
102,044, PHILIP HENRY ROSE,
MILLER BARNEY HUDSON.
STOVE-PIPE THIMBLES



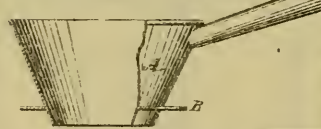
102,049, C. A. SCANLON.
DREDGING APPARATUS.



102,056, JAMES P. SIBLEY,
ARTHUR WALSH.
WATER-WHEEL REGULATORS



102,050, THOS. SCANTLIN.
FUNNEL CAN-FILLERS



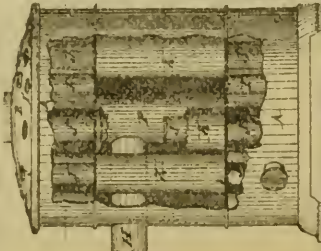
102,051, O. SCHEVENELL.
CARTRIDGE-CASES.



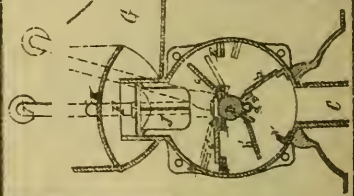
102,052, JOHN SELLORS.
HORSE-COLLAR CAP.



102,053, CHARLES W. SERVOS.
HEATING-DRUMS.



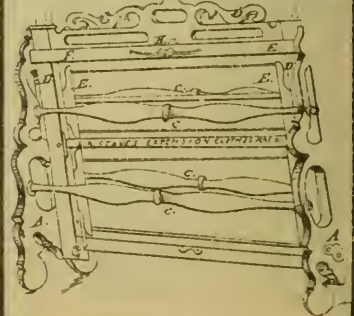
102,057, ANTHONY SLETHOUR.
ROTARY PUMPS



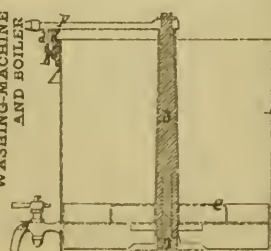
102,058, O. J. SMITH, WRENCHES.

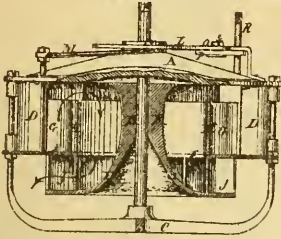


102,059, LEWIS A STAVE.
CLOTHES-DRIER

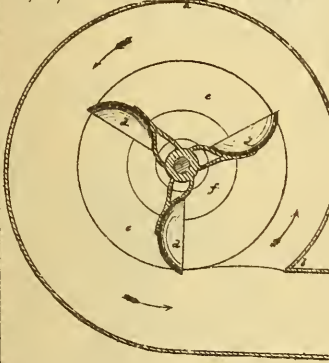
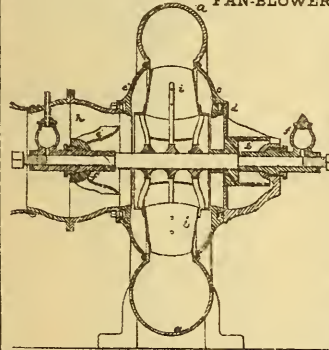
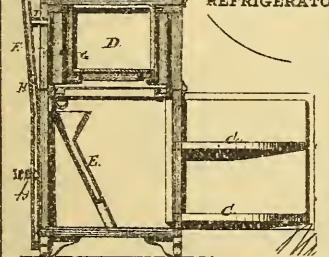


102,046,
JOHN RUSSELL,
FREDERICK T. McGRATH.
WASHING-MACHINE
AND BOILER

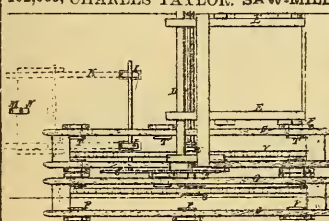


102,060, GILBERT STOVER.
TURBINE WATER-WHEELS.102,061, WILLIAM M. STUART.
ROOFING COMPOUND

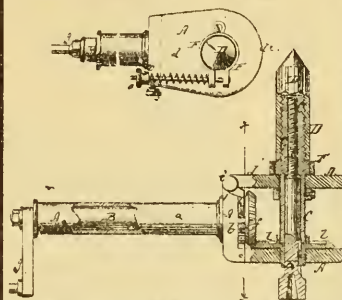
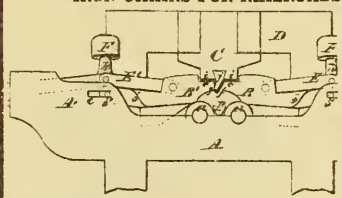
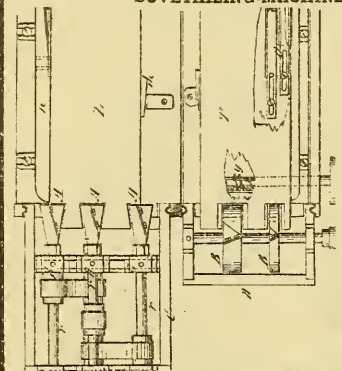
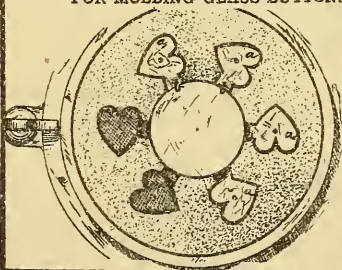
102,062, B. F. STURTEVANT. BLOWERS.

102,063, B. F. STURTEVANT.
FAN-BLOWERS.102,064, ANTHONY B. SWEETLAND.
REFRIGERATOR.

102,065, CHARLES TAYLOR. SAW-MILLS.



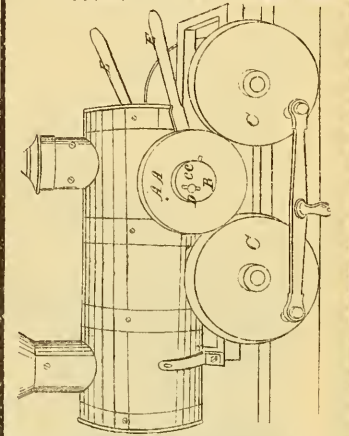
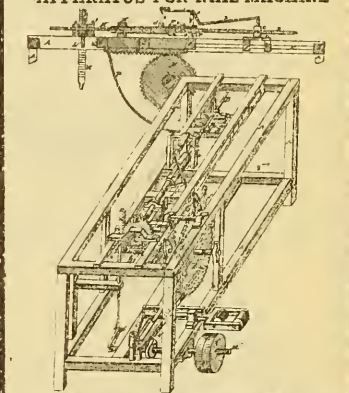
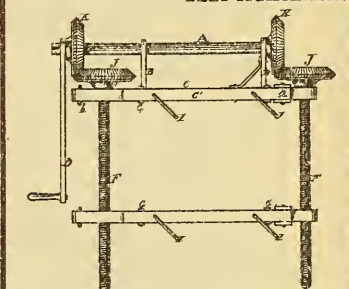
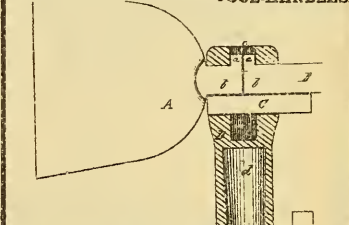
102,066, ALEX'R. THOMPSON. DRILL

102,067, JOSEPH WOOD TUTTLE.
JULIUS PETERSON.
DETACHING-HOOKS.102,068, WM. VAN ANDEN.
MACHINE FOR MAKING WROUGHT
IRON CHAIRS FOR RAILROADS.102,069, JAMES R. VAN EPPS.
DOVETAILING-MACHINE.102,070, CHARLES VIGNERON. MACHINE
FOR MOLDING GLASS BUTTONS.

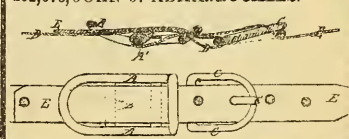
102,071, EDWARD WIARD.



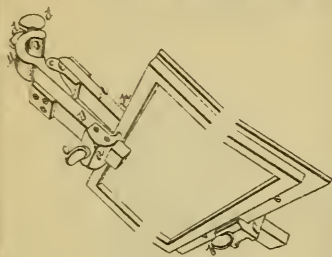
HANDLE-SEATS FOR FLOW

102,072, JOSEPH C. WILSON
LOCOMOTIVE AND CAR-BRAKES.102,073, URIAH S. WOLFF. FEEDING-
APPARATUS FOR NAIL-MACHINE102,074, ALVIN N. WOODARD.
BELT-TIGHTENERS.102,075, EDWIN L. ABERCROMBIE.
TOOL-HANDLES.

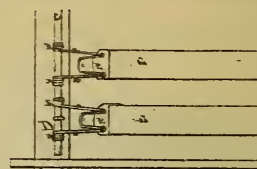
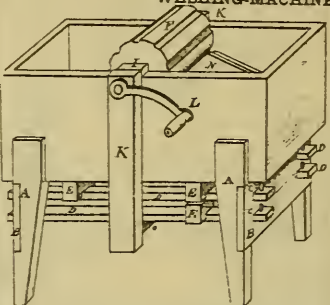
102,076, JOHN J. ADAIR. BUCKLES.



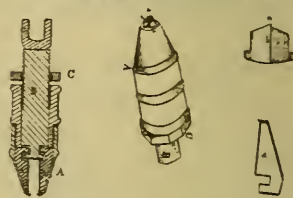
102,077, J. A. ADAMS. ELECTROTYPING.



102,083, SAMUEL BRACKETT. WASHING-MACHINE.

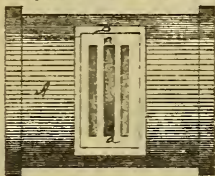


102,090, CHAS. E. BUTLER. ADJUSTABLE HOLLOW DRILL.

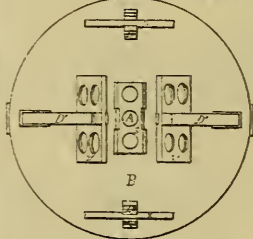


102,078, Q. S. BACKUS.

PROCESS FOR FACING VALVES AND VALVE-SEATS FOR STEAM-ENGINES.



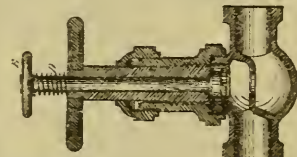
102,084, ISAAC BREWBAKER. CHURN-DASHER.



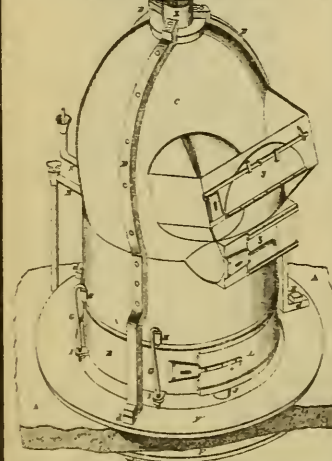
102,079, ALBERT BAXTER. WHEEL-GEAR FOR CARRIAGES.



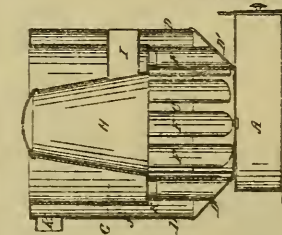
102,085, ISAAC W. BROWN. GLOBE-VALVES.



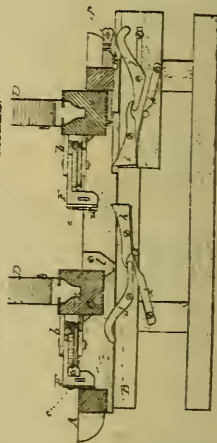
102,080, GAIN BEEMAN. STOVE FOR RAILROAD CARS.



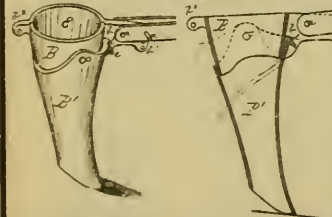
102,086, LORENZO W. BROWN. HOT-AIR FURNACE.



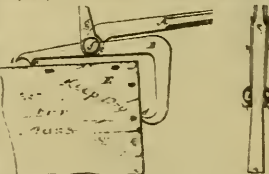
102,091, JAS. A. CLARK. HEAD-BLOCKS OF SAW-MILLS.



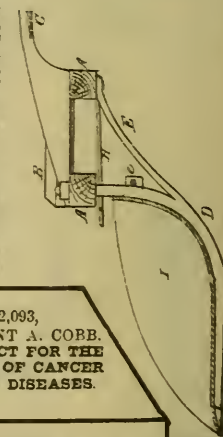
102,081, LYMAN BICKFORD. GRAIN-DRILL TEETH.



102,087, CHARLES BRUSO. BOX-HOOK.

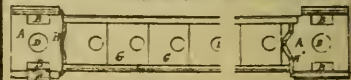


102,092, J. W. CLARKE. COMBINED MANURE-FORK AND SCRAPER.

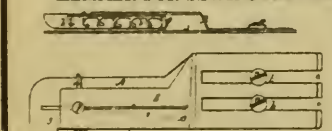


102,093, PLEASANT A. COBB. EXTRACT FOR THE CURE OF CANCER AND OTHER DISEASES.

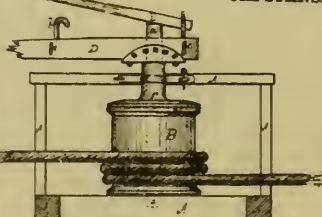
102,094, HILAS D. DAVIS. PATTERN-CHAIN FOR LOOMS.



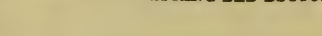
102,082, ALMON W. BOOMER. JOHN P. HASKINS. HEMMER FOR SEWING-MACHINE.



102,088, EBENEZER BUEL. CAPSTANS.

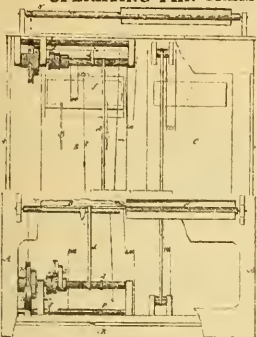
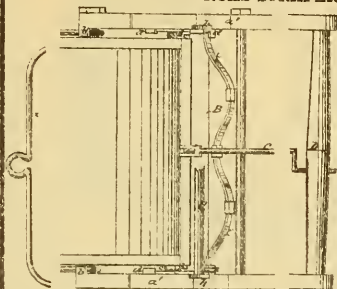
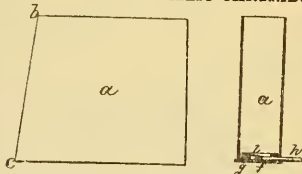
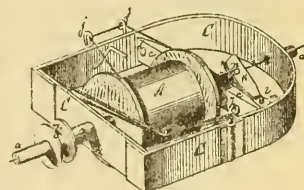
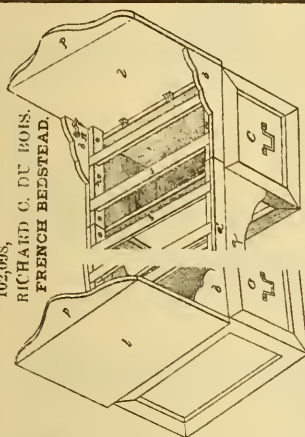
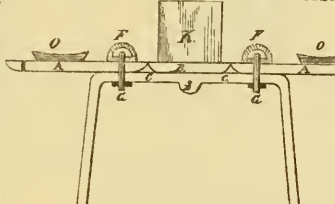
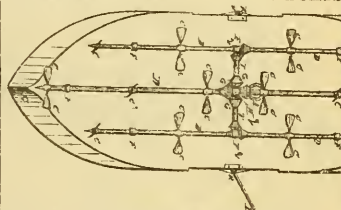
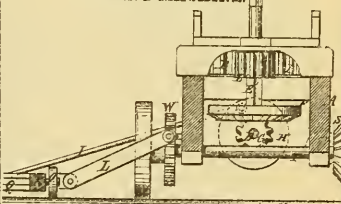
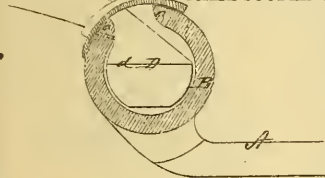
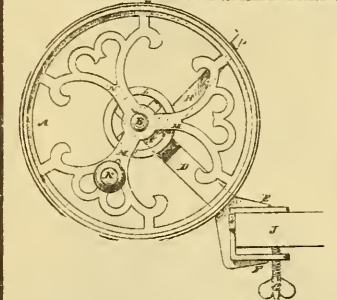
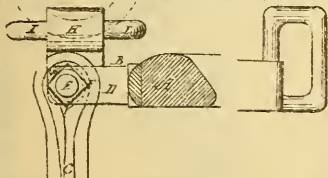
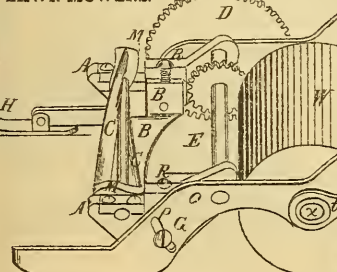
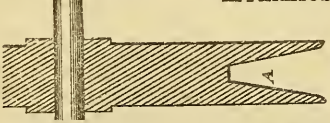
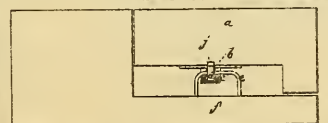
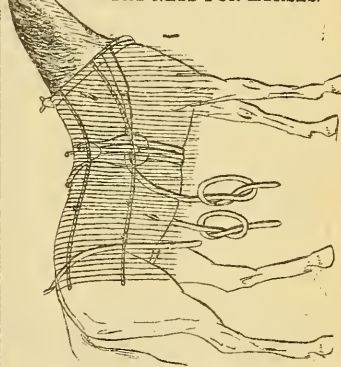
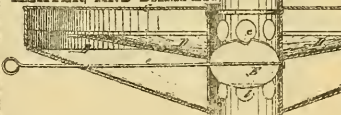


102,089, J. N. BULL. SPRING-BED BOTTOM.

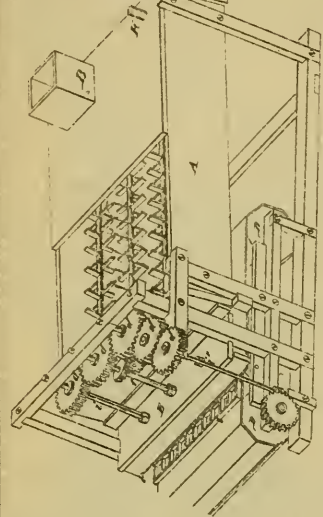


102,095, JOHN DAY. HORSESHOE BLANK.

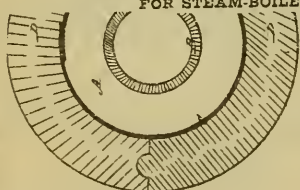


102,096, JOSEPH H. DOW.
OPERATING FAN TREMOLOS.102,102, JAMES C. EVANS.
ROAD-SCRAPERS.102,109, A. N. C. GAVARD.
METALLIC CARTRIDGES.102,110, A. GIRAUDAT.
WIRE-COVERING MACHINES.102,097 NELSON H. DOWNS.
CONCRETE PAVEMENTS.102,103, SIGMUND FEUST.
LUNCH VALISE.102,111, EDWARD D. GIRD.
SCREW PROPULSION FOR TUG-BOATS.102,104, JAMES B. FORSYTH.
JOHN J. HALLEY.
ELASTIC ROLLS.102,105, C. A. FOSTER.
COMBINATION TOOL.102,112, A. GOODMAN.
H. GOODMAN.
SAWING-MACHINE.102,099, GEO. W. DUBUISSON.
TEILL-COUPING102,106, CALVIN A. FOSTER.
SCISSORS-SHARPENERS.102,100, CHAS. H. EASTE.
HAME-ATTACHMENT102,101, NORMAN EATON.
LAWN-MOWERS.102,107, JAMES S. FRENCH.
WHEEL FOR LOCOMOTIVE LAND
CONVEYANCE, AND COAL-HOISTING
APPARATUS.102,108, F. W. FROST.
SHUTTER-FASTENERS.102,113, JOHN GRAHAM.
FLY-NETS FOR HORSES.102,114,
EDWARD HALL.
FRANCIS D. SEARL.
STOVE-PIPE SHELF.
HEATER, AND DAMPER.

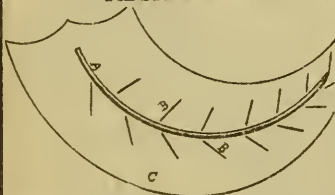
102,115, GEO. W. HARLAN.
BRICK-MACHINES.



102,116, WASHINGTON HARRIS,
WILLIAM HOWELL.
NON-CONDUCTING COVERING
FOR STEAM-BOILERS.

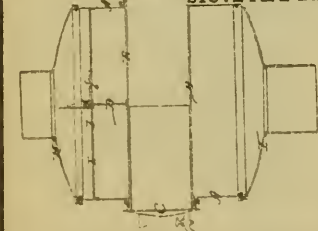


102,117, ALLEN HAWKES.
PIE-STAMPER AND CUTTER.

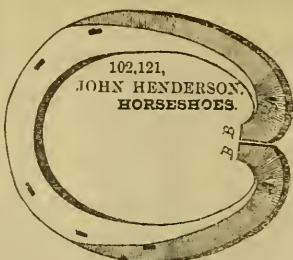
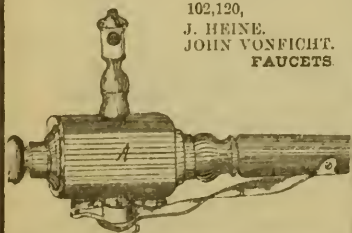


102,118, E. B. HECKEL MINERAL PAINT.

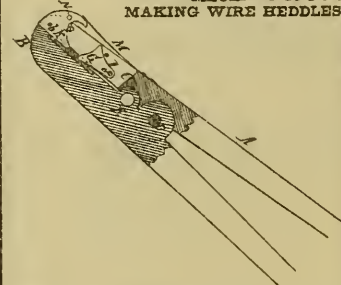
102,119, JACOB HEGER.
STOVE-PIPE DRUM



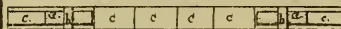
102,120,
J. HEINE.
JOHN VONFICHT.
FAUCETS.



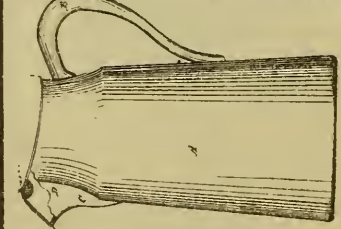
102,121,
JOHN HENDERSON.
HORSESHOES.



102,122, EMUL T. HERTLE.
RICHARD THOMPSON.
MECHANISM FOR
MAKING WIRE HEDDLES



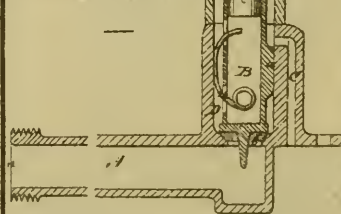
102,123, AUGUST HERZOG.
COVER FOR TABLES, FLOORS, &c.



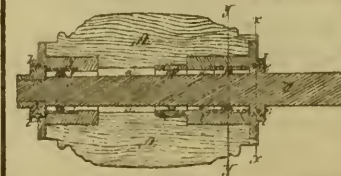
102,124, JOHN H. HOBBS.
SIRUP-PITCHER.



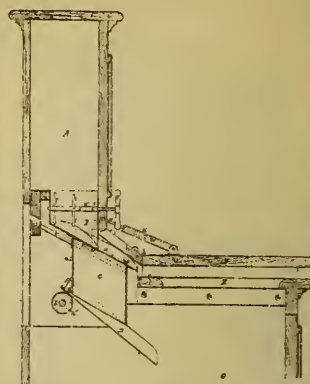
102,125, JOH. HOF.
PHILIPP BRENNIS.
HINGES FOR SHUTTERS.



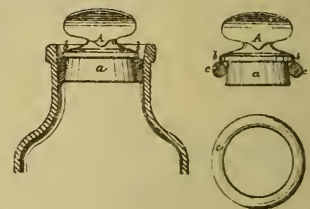
102,126,
JAMES P. HYDE.
HYDRANTS.



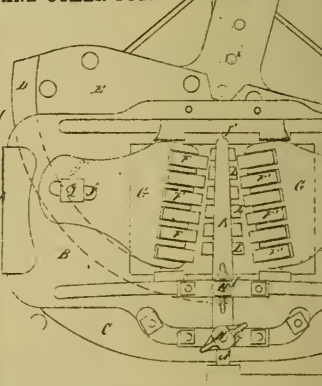
102,127, DAVID JEWETT.
AXLE-BOX FOR CARRIAGES



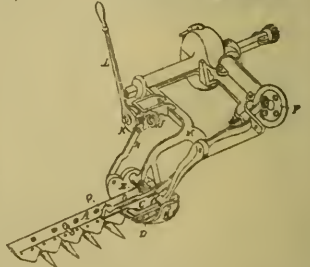
102,128, HENRY W. KETCHAM.
STOPPERS FOR JARS AND BOTTLES.



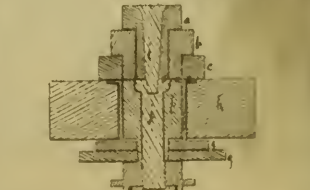
102,129, CHARLES KEWIN.
MACHINE FOR
ROLLING CONICAL
AND OTHER TUBES



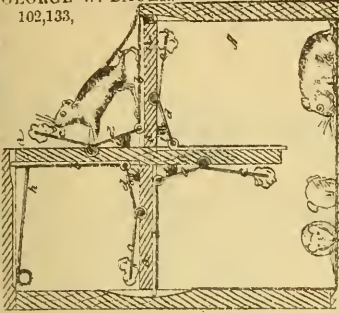
102,130, WM. A. KIRBY. HARVESTERS.



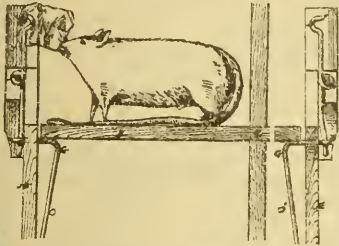
102,131, JOSEPH G. KITTREDGE.
KNOBS FOR SAFE-DOORS



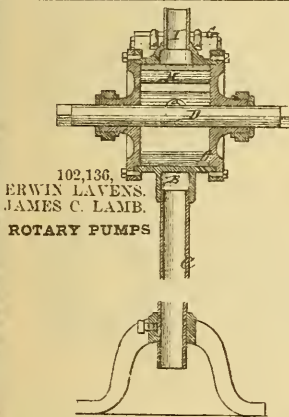
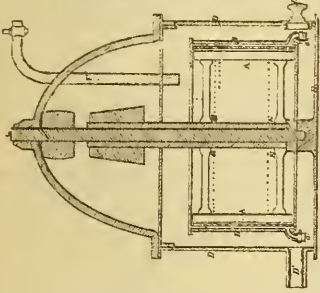
J. O. KOPAS.
GEORGE W. BAUER. ANIMAL-TRAP.
102,133,



102,134, J. O. KOPAS. ANIMAL-TRAP.



102,135, FREDERICK LAMBE.
TREATING PARAFFINE AND
OBTAINING IT IN CRYSTALS.



102,136,
ERWIN LAVENS.
JAMES C. LAMB.
ROTARY PUMPS

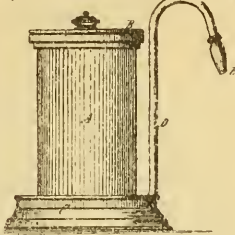
102,137, HARVEY T. LEE.
PISTON-ROD PACKING.



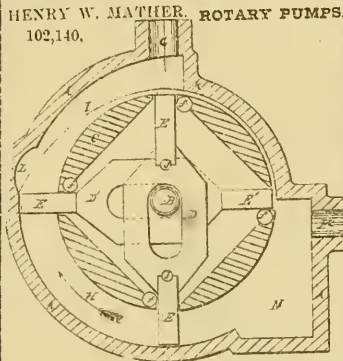
102,138, JOSIAH LETCHWORTH
HAMES FOR HARNESS



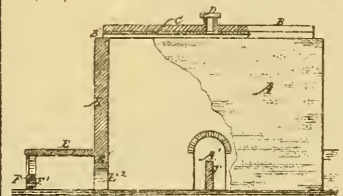
102,139, EUGENE MARTIN. COFFEE-URN.



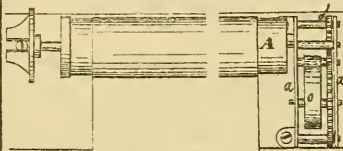
HENRY W. MATHER. ROTARY PUMPS
102,140.



102,141, W. T. MATHEWS. BRICK-KILNS.



102,142, FERDINAND C. D. MCKAY.
SELF-WINDING AND BALANCING
CURTAIN-FIXTURE.



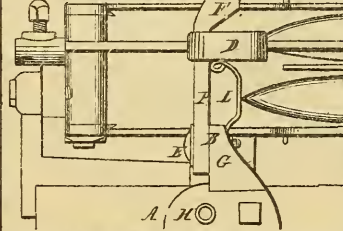
102,143,
HENRY MINER.
STOVE-GRATES.



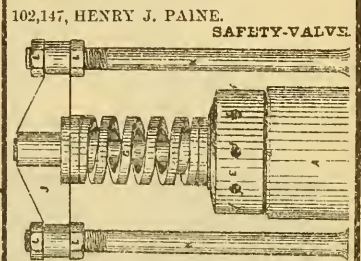
DAVID MOFFAT.
JOHN THOMSON.
102,144. PAVING-BRICKS.



102,145, WM. MONTGOMERY.
PICKER-CHECK FOR LOOMS.

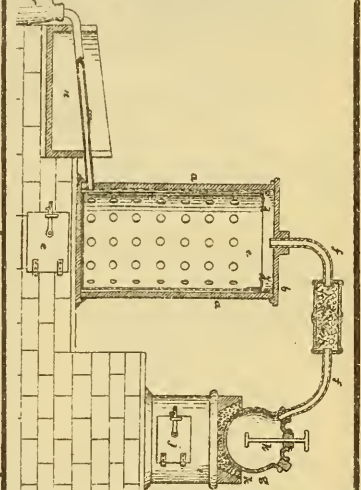


102,146, CHARLES MOTIER NES.
MANUFACTURE OF STEEL.

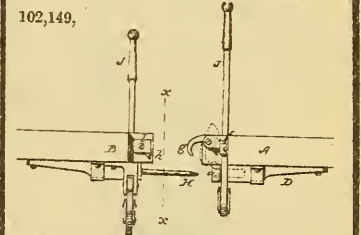


102,147, HENRY J. PAINE.
SAFETY-VALVE.

102,148, DUBOIS D. PARMELEE.
TREATING TIN SCRAP TO
OBTAIN USEFUL PRODUCTS.



W. B. PARSONS. CAR-COUPPLINGS.



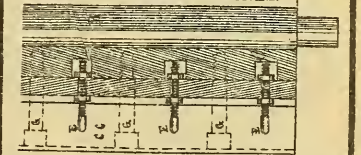
GEORGE PERRY.
102,150. DOUBLE-SHOVEL
FLOWS.



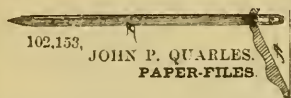
102,151, IVA POFFENBERGER.
JOINT FOR PITMAN-HEADS,
SICKLES OF HARVESTERS.



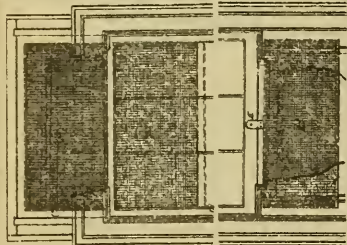
102,152, WILLIAM PORTER.
HULLING-MACHINES.



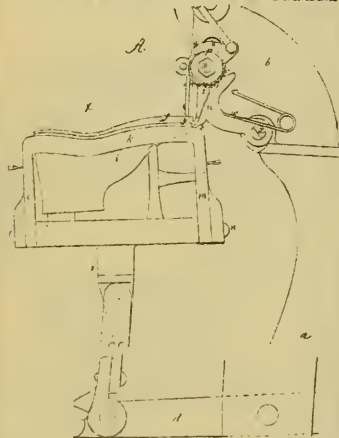
102,153, JOHN P. QUARLES.
PAPER-FILES.



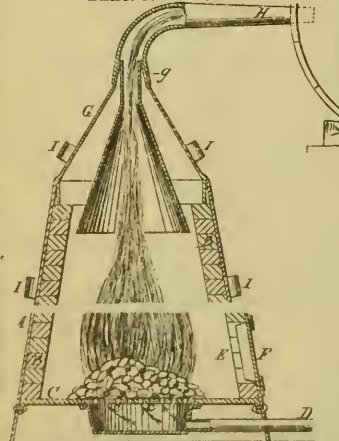
102,154, GEO. REED.
WILLIAM C. HOAGLAND.
JOHN J. NEWSON.
SCREEN-ATTACHMENT FOR WINDOWS.



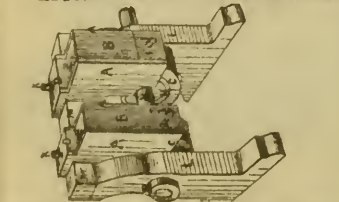
102,155, T. K. REED.
MACHINE FOR UNITING BOOT AND
SHOE-SOLES TO THE UPPERS



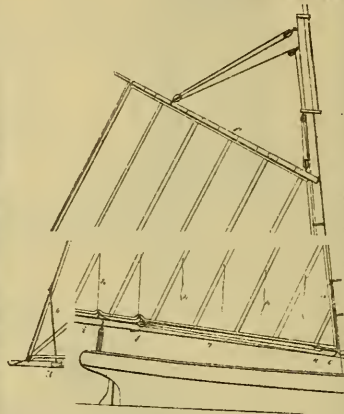
102,156, HERMANN REUTTI.
PHILIPP WINKELHAUS.
APPARATUS FOR PITCHING
BEER AND OTHER BARRELS.



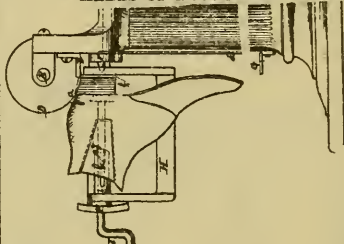
102,157, ISRAEL L. G. RICE.
INKING-APPARATUS FOR COLOR-PRINTING.



102,158, NATHANIEL WILEY RICH.
APPARATUS FOR
REEFING SAILS.



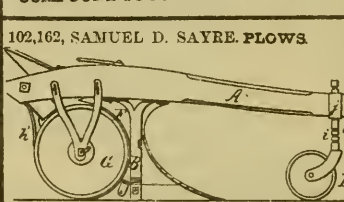
102,159, EVERETT P. RICHARDSON.
MACHINES FOR TRIMMING THE
HEELS OF BOOTS AND SHOES.



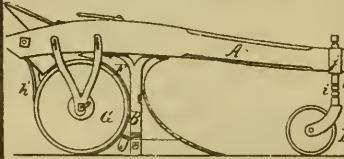
102,160, JOHN H. ROBSON.
MACHINE FOR JOINTING THE
CLEARING-TEETH OF CROSSCUT-
SAWS.



102,161, JOHN B. RODGERS.
RHEUMATISM AND OTHER DISEASES
COMPOUND TO BE USED IN TREATING

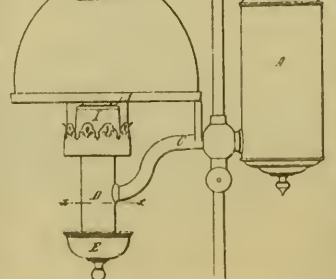


102,162, SAMUEL D. SAYRE. PLOWS.

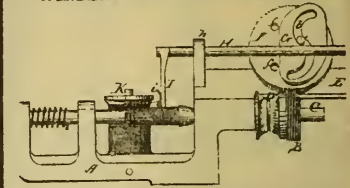


102,163,

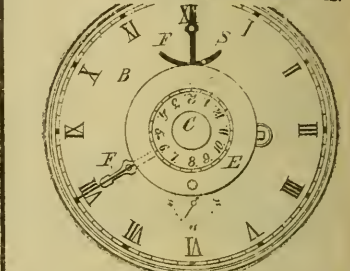
BENNETT B. SCHNEIDER.
LAMPS.



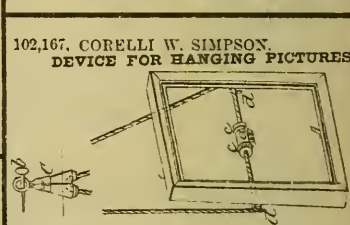
102,164, THOMAS SHANKS, ROBBIN.
WINDERS FOR SEWING-MACHINES.



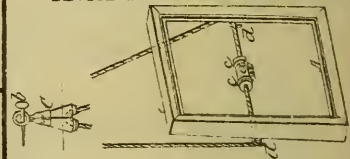
102,165, DAVID SHIVE.
WATCHMEN'S TIME-CHECKS.



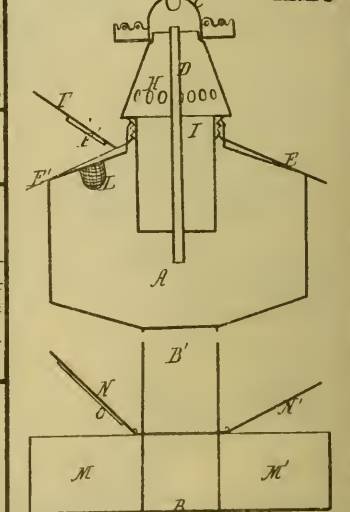
102,166, CHS. F. A. SIMONIN.
EDWARD W. COFFIN.
CLEANING WOOL AND HAIR.



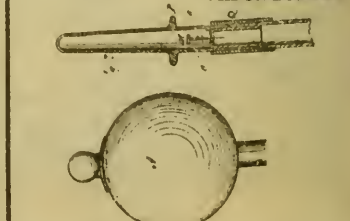
102,167, CORELLI W. SIMPSON.
DEVICE FOR HANGING PICTURES.



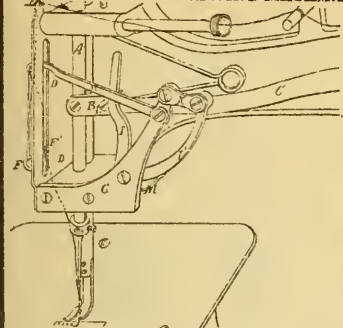
102,168, FRANCIS VANVOST SLEETH.
LAMPS.



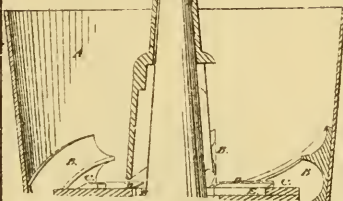
102,169, CHAS. E. SMITH.
HENRY J. RICE.
VAPOR-BURNERS.



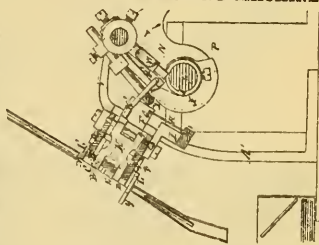
102,170, G. A. SMITH.
E. L. MILLER SEWING-MACHINE.



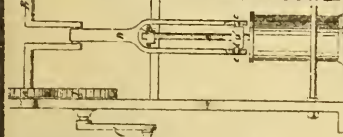
102,177,
C. C. STEVENSON.
AMALGAMATOR



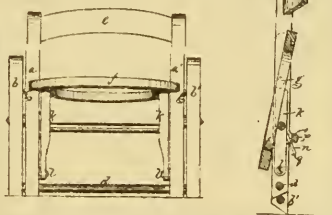
102,183, DAVID B. THOMPSON.
TYPE-DISTRIBUTING MACHINES.



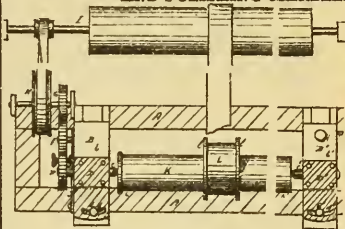
102,171, RUTH N. SMITH.
CHURN POWER



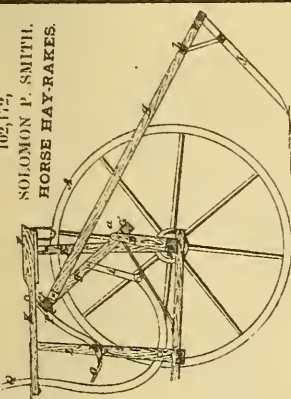
102,178, ALEXR. W. STEWART.
FOLDING CHAIR



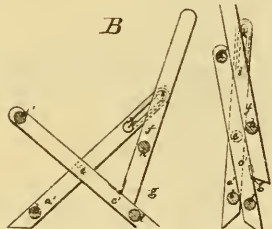
102,184, JOHN H. VOLK.
MACHINE FOR GRINDING
AND POLISHING MARBLE.



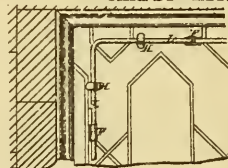
102,172,
SOLOMON P. SMITH.
HORSE HAY-RAKES.



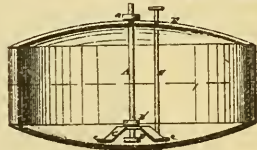
102,179, ALEXR. W. STEWART.
FOLDING CHAIR



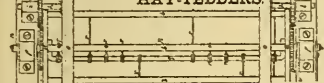
102,185, REDFORD W. WALKER.
CARPET-FASTENER.



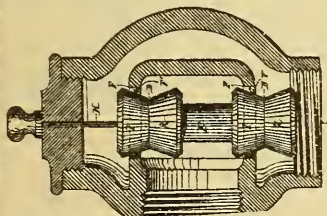
102,186, JOHN WARREN.
STILLS FOR PETROLEUM.



102,173, WALTER SMITH.
HAY-TEDDERS.



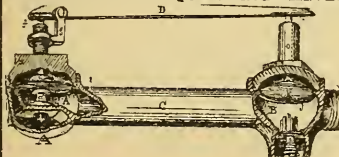
102,174, WILLIAM SMITH.
GOVERNOR-VALVE.



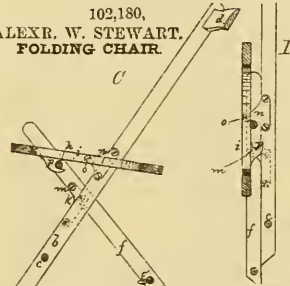
102,175, SOLOMON A. STERRINS.
APPARATUS FOR COOLING GRAIN.



102,176, JOHN J. STEIGER. SELF-ACTING
EQUALIZING-VALVES



102,180,
ALEXR. W. STEWART.
FOLDING CHAIR.

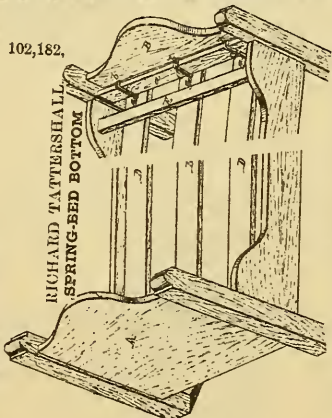


102,181,
EDWIN STREET.
METAL-CAPPED CORKS

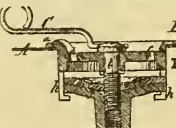


102,182,

RICHARD TATTERSHALL
SPRING-BED BOTTOM



102,187,
ALBIN WARTH
FOR PETROLEUM
STOP-VALVES
PACKAGES.



102,188,
ALBIN WARTH.
TAPS FOR LIQUID PACKAGES



102,189,
J. D. WILLIAMS
COPY-BOOKS.



102,190, MORRIS WISE.
BUTTON-FASTENINGS.

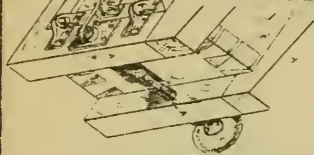


102,191, HERMANN WOLFF.
SHUTTER-WORKERS.



102,192 HERMANN WOLFF.

SHUTTER-WOOLER.



102,193 J. H. WOOD.

ARTIFICIAL TEETH.

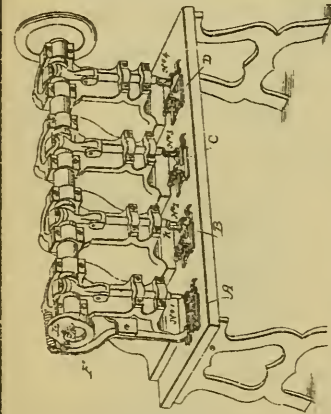


102,194 ALLEN YOUNG.

MEDICINE FOR COUGHS AND COLDS.

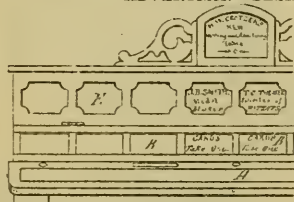
102,195 SOLOMON W. YOUNG.

MACHINE FOR FORMING AND CUTTING EYELETS AND FOR THE PREPARATION OF STOCK FOR THE SAME.



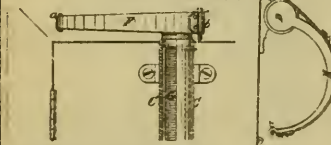
102,196 H. W. CROTZER.

ADVERTISING-DESKS.



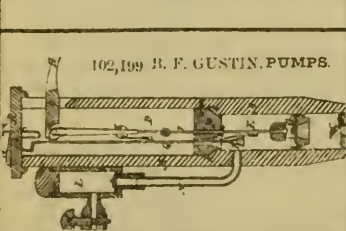
102,197 ALEXANDER T. BALLANTINE.

DOOR-SPRINGS.

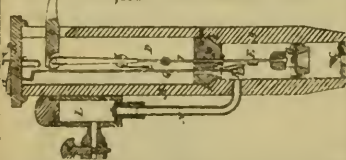


102,198 JOHN L. DUFFEE.

BRONZING AND GILDING.

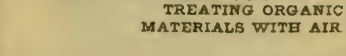


102,199 B. F. GUSTIN. PUMPS.



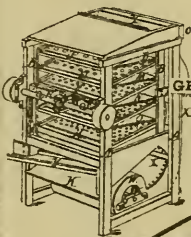
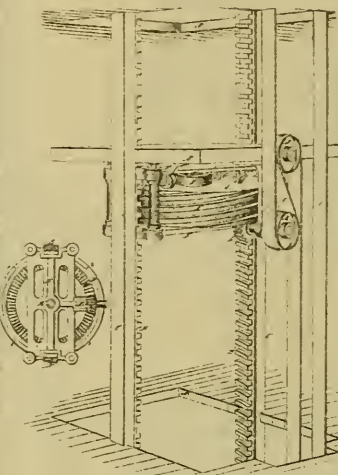
3,921 RUDOLPH D'HEUREUSE.

TREATING ORGANIC MATERIALS WITH AIR.



3,922 WILLIAM MILLER.

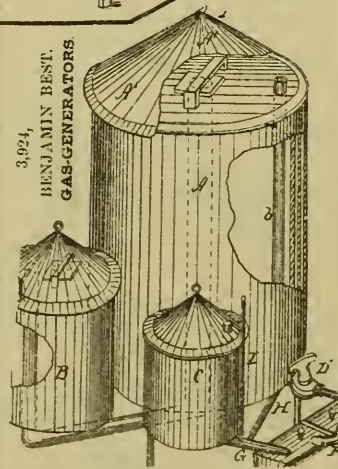
HOISTING-MACHINE.



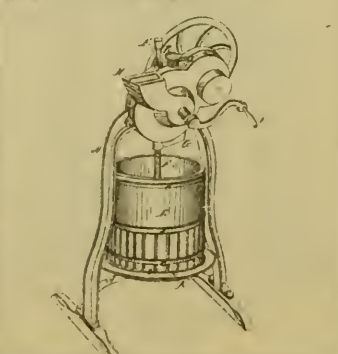
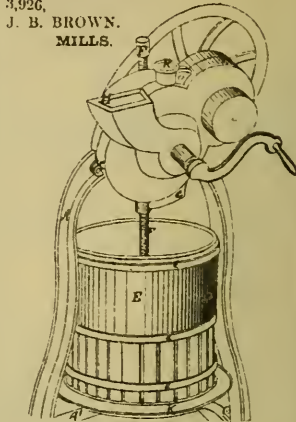
3,923

G. B. TURNER.
GRAIN-SEPARATOR.

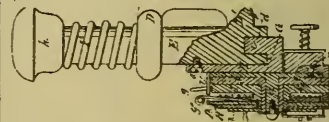
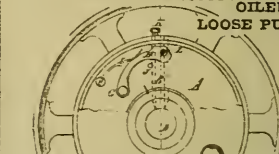
3,924

BENJAMIN BEST.
GAS-GENERATORS.

3,925 J. B. BROWN. MILLS.

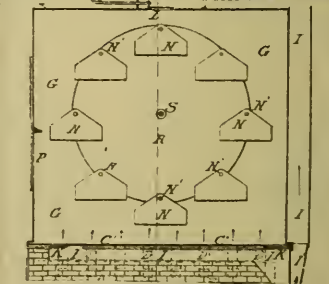
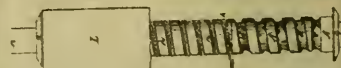
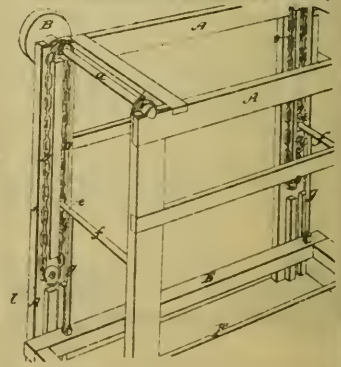
3,926
J. B. BROWN.
MILLS.

3,927 B. B. HILL HAND-STAMPS.

3,928 CHARLES A. KING.
DANIEL B. WESSON.OILER FOR
LOOSE PULLEYS.

3,929 M. A. E. MCKENZIE.

BAKER'S OVEN

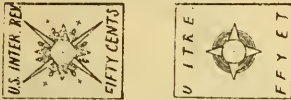
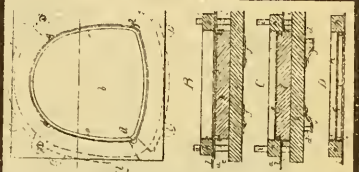
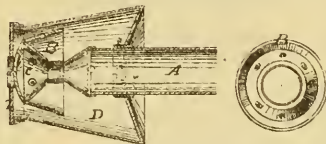
3,930 LYMAN A. COOK.
ROLLER FOR CLOTHES-WRINGERS.3,931 P. J. TORNEY.
C. W. HAYDEN.
JNO. L. KIDWELL.
MACHINE FOR SAWING MARBLE.

ILLUSTRATIONS OF PATENTS

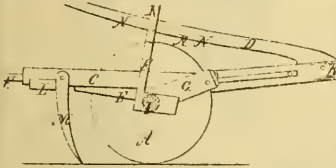
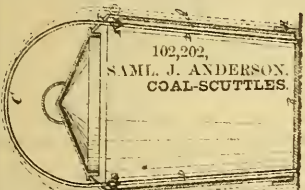
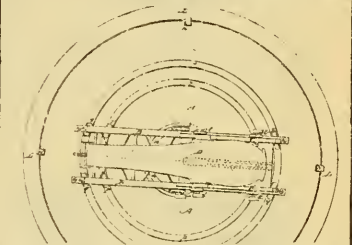
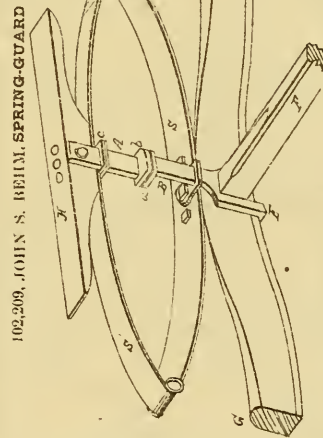
ISSUED FROM

THE UNITED STATES PATENT OFFICE

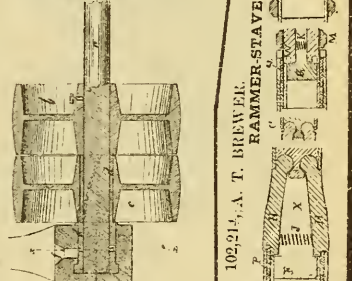
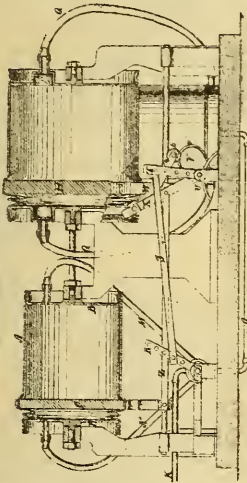
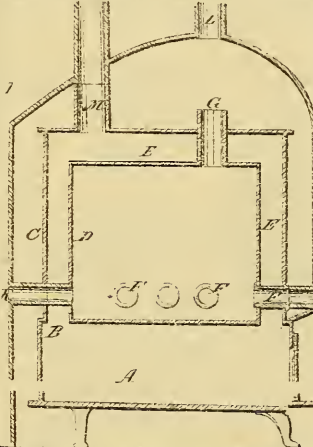
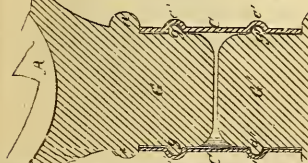
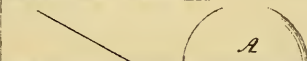
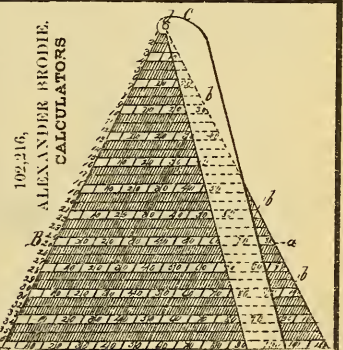
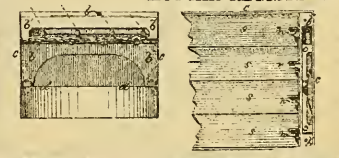
APRIL 26, 1870.

102,200, LEWIS ABRAHAM
REVENUE AND POSTAL STAMPS.102,208, CHAS. B. BARLOW.
CHIMNEY-COWL.

102,201, CLARK ALVORD. CULTIVATORS.

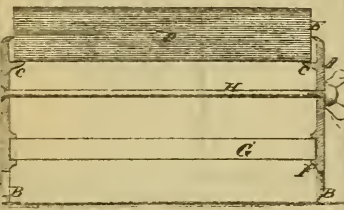
102,213, A. T. BREWER. COUNTERPOISE
PLATFORMS FOR ORDNANCE.102,202,
SAML. J. ANDERSON.
COAL-SCUTTLES.

102,209, JOHN S. BEHM. SPRING-GUARD

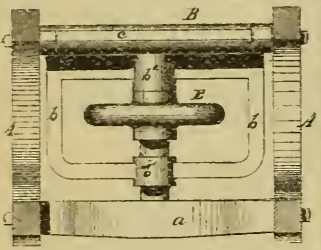
102,215,
JOSEPH W. BROCKWAY.
LUBRICATOR FOR
LOOSE POLEYS.102,214, A. T. BREWER.
RAMMER-STAVES.102,203, DANIEL ASHWORTH.
APPARATUS FOR
MIXING HYDROGEN AND AIR102,210, GEORGE J. BENTLEY.
HOT-AIR DRUM FOR COAL-STOVES.102,204 J. S. ATTERBURY.
T. B. ATTERBURY. LAMPS.102,205. W. H. BALMAIN.
CONCENTRATING OIL OF VITRIOL.102,211. M. E. BEROLZHEIMER.
ENVELOPE FASTENER.102,206, WILLIAM HENRY BALMAIN.
MODE OF STORING AND
TRANSPORTING OIL OF VITRIOL102,212. O. A. BINGHAM. DEVICE FOR
MANUFACTURING CHAIR SEATS.102,216,
ALEXANDER BRODIE.
CALCULATORS.102,217, WILLIS S. BRONSON.
HOT-AIR REGISTERS.

102,207. SUSPENDED.

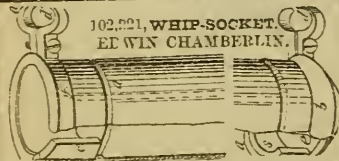
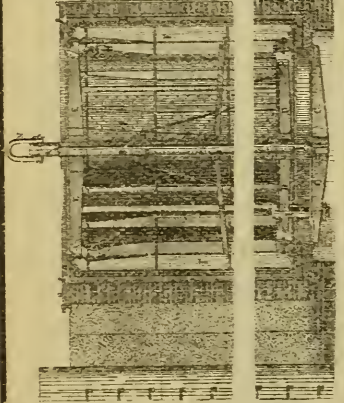
102,218. H. BROWN.
OIL STONE HOLDER.



102,219. TIMOTHY L. CARLEY.
MILTON BROUGHTON.
PLANING-MACHINE.

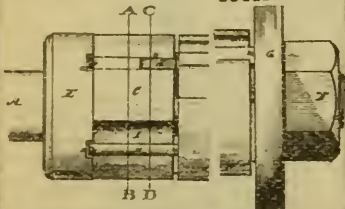


102,220. ROBT. CARTWRIGHT.
CORE-BARREL.



102,221. WHIP-SOCKET.
E. WIN CHAMBERLIN.

102,222. MILTON W. CLARK.
CUTTER-HEAD.

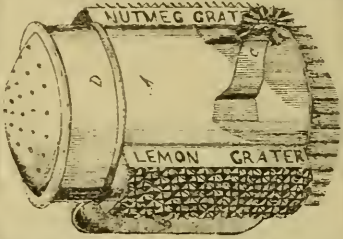


102,223. ALMON P. CLEMENTS.
JOHN C. NEALEY
CULTIVATORS

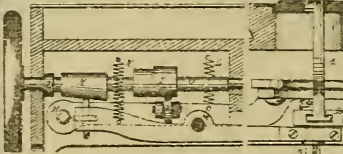


102,224. THOMAS COMBS. OINTMENT.

102,225. SYDNEY COOKE. DREDGE-BOX.
CAKE-CUTTER AND GRATER.



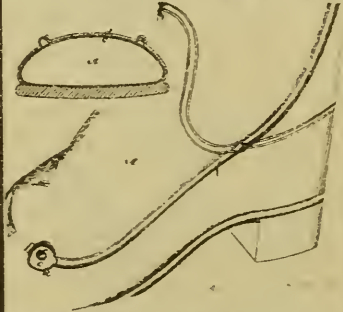
102,226. WILLIAM COONEY.
SEWING-MACHINE.



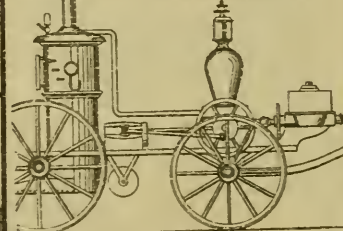
102,227.
ALBERT COOPER.
SASH-LOCKS.



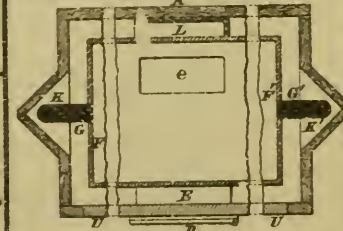
102,228. HENRY C. COTTRELL.
VENTILATED RUBBER BOOT.



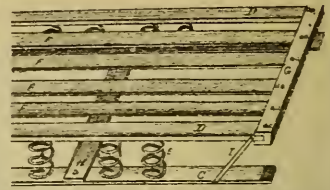
102,229. GEORGE COWING.
FIRE-EXTINGUISHERS.



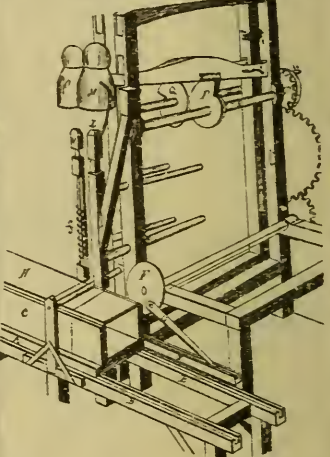
102,230. ALBERT W. COX. DRIER



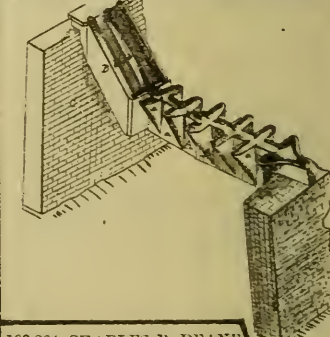
102,231. WARREN S. CRIPPEN.
SPRING BED-BOTTOM



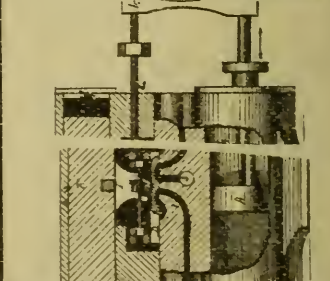
102,232. JOHN CRONIN. MACHINE FOR
MAKING WOODEN BOXES



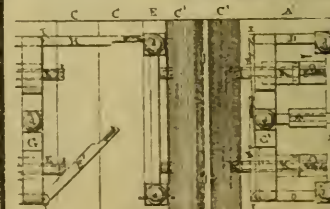
102,233. JOHN CUTHBERT.
FURNACE GRATE-BAR AND GRATING.

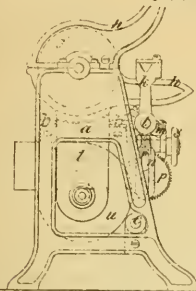
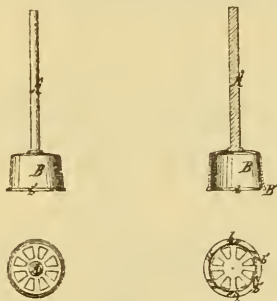
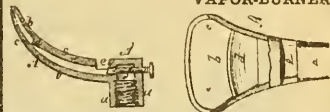
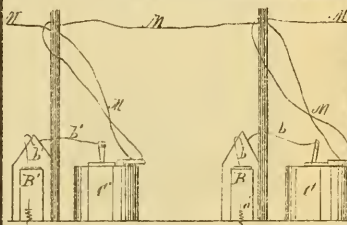


102,234. CHARLES P. DEANE.
DIRECT-ACTING ENGINES.

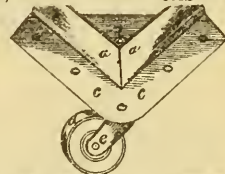
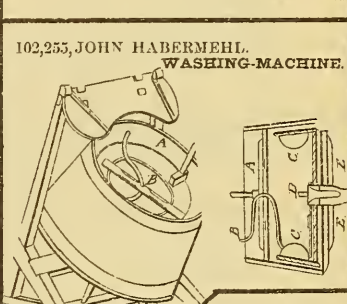
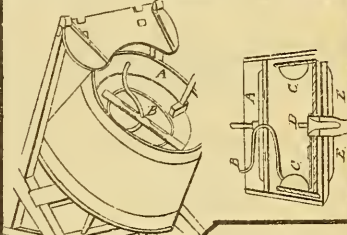
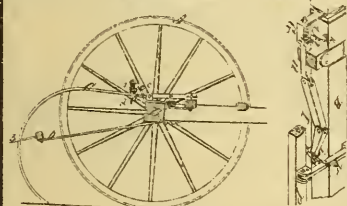
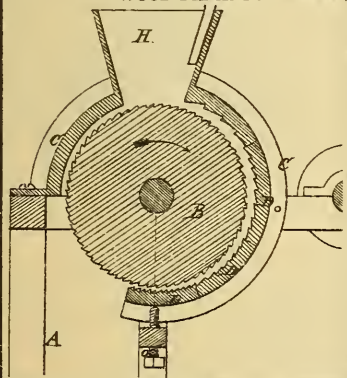


102,235. ANTON DIETSCH.
EXTENSION TABLE

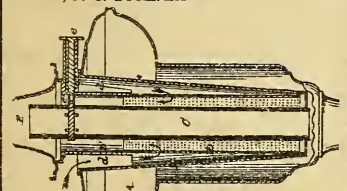


102,236, JOSEPH S. DRONSFIELD.
CARD-GRINDER.102,242, CHARLES HENRY FORBES.
WILLIAM FORBES BUTTER.
HINGES FOR SHUTTERS.102,243, LEWIS FRANCIS. INK FOR
PRINTING AND OTHER PURPOSES.102,244, L. OTTMAR FRANK.
RAINBOW SPINNING-TOP.102,245, O. P. FRANTZ.
DEVICE FOR BORING WELLS.102,251, FRANKLIN GOULD.
VAPOR-BURNERS.102,252, FREDERICK J. GRACE.
SYSTEM OF TELEGRAPHING.

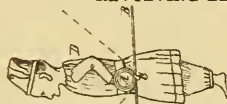
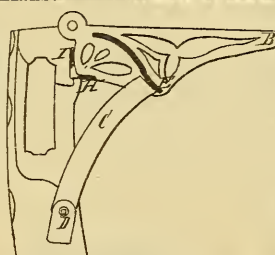
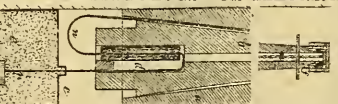
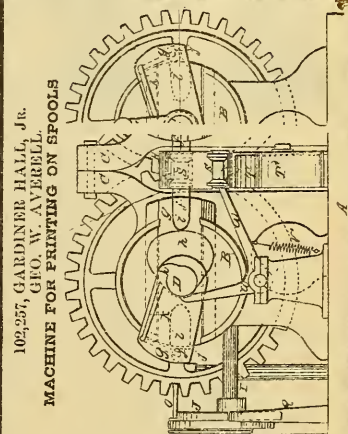
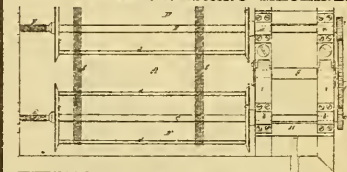
102,253, GUY E. GROSSE. CASTERS.

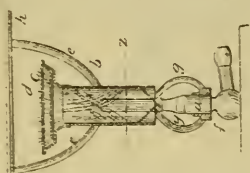
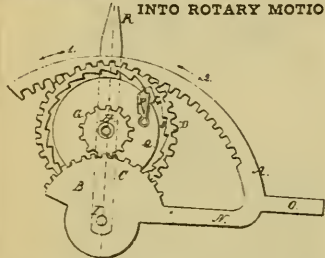
102,254, JOHN D. GRÜNEBERG.
COATING METALS.102,255, JOHN HABERMEHL.
WASHING-MACHINE.102,238, D. S. EMRICK.
HORSE HAY-RAKES.102,239, ALBERT FICKETT.
APPARATUS FOR SEPARATING
WOOD FIBER FOR PAPER.

102,240, J. S. FISH. LAMP.

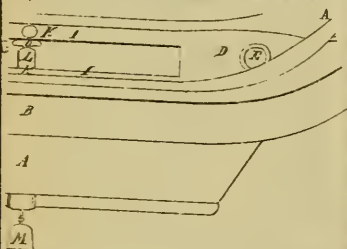
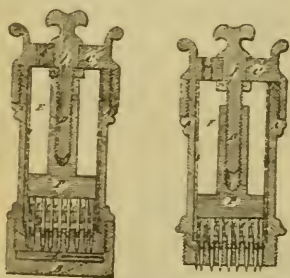


102,241, JOHN S. FISH. OIL-WELL PUMPS.

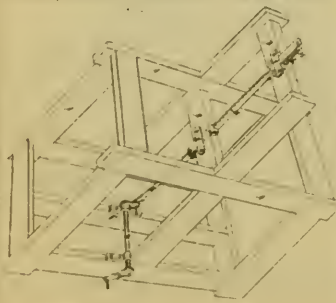
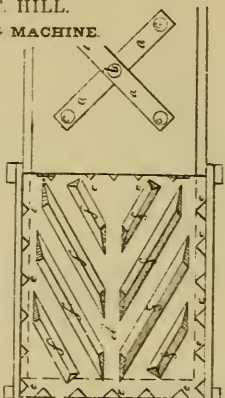
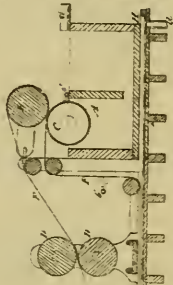
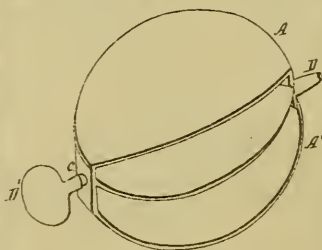
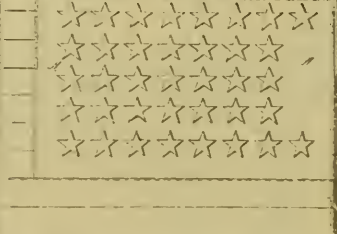
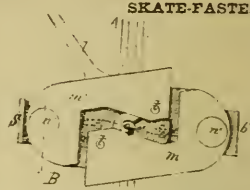
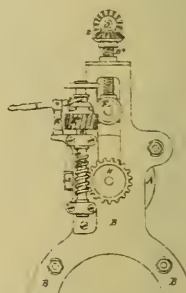
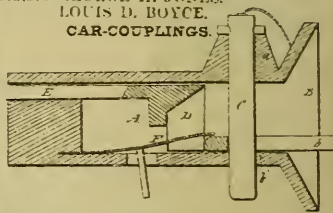
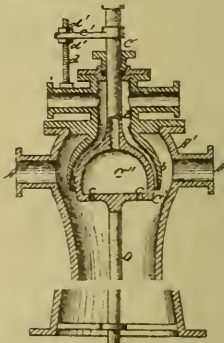
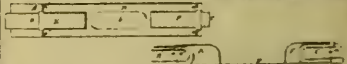
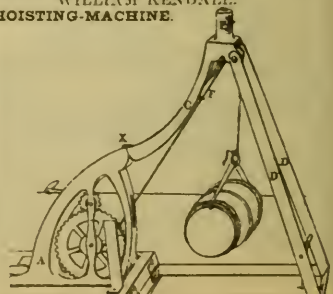
102,246, KAROLINA FRIES.
COMPOUND FOR CLEANSING SILK.102,247, HENRY N. GALLAGHER.
REVOLVING BAR-TOY.102,248, GEO. GARDNER.
BOOK-RACK OR STAND.102,249, H. E. GILLET.
FOLDING DESK.102,250, EDWIN GOMEZ.
TAMPING-PLUGS FOR BLASTING.102,256,
ED. HAEFFELY.
YARN-WASHING MACHINE.

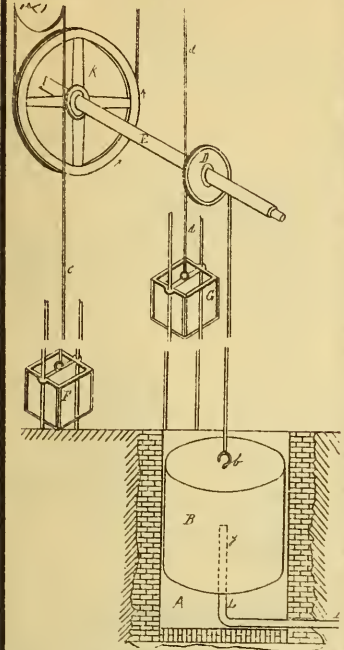
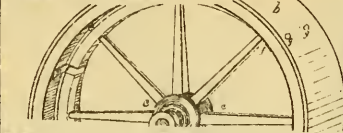
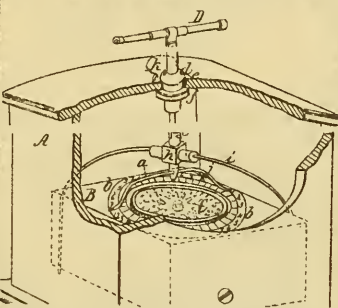
102,258. LAVINAS BISH HAMILTON.
GAS-HEATERS.102,259. WM. HENRY HART, JR.
HOLDERS FOR NECK-TIES.102,260. JOACHIM F. HARTMANN.
CONVERTING RECIPROCATING
INTO ROTARY MOTION

102,261. PHILIP HEINRICH. LIFE-BOATS.

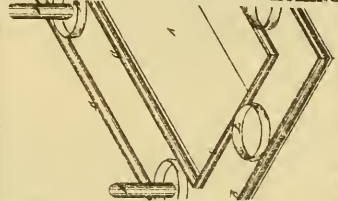
102,262. GARDNER HERRICK.
ACUPUNCTURE INSTRUMENTS

102,263. ENOCH HIGHLEY. SAW-MILLS.

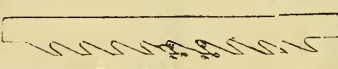
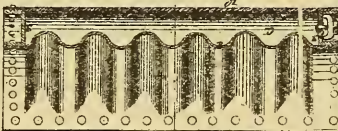
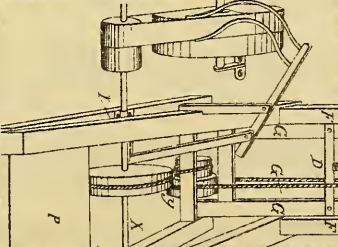
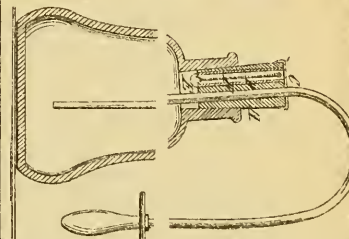
102,264. C. HILL.
WASHING MACHINE.102,265. I. HOFFMAN.
MANUFACTURE OF PAPER.102,266. G. HOLLINGER AND
STOVE PIPE DAMPER S. H. FRY.102,267. JOHN HOLT.
SIGNAL AND OTHER FLAGS.102,268. ALBERT H. HOOK.
MANUFACTURE OF
INDIA-RUBBER BELTS.102,269. H. B. HOOKER.
SKATE-FASTENING102,270. S. HUTCHINSON.
MACHINERY FOR STRIKING OUT
LEATHER102,271. GEORGE H. JONES.
LOUIS D. BOYCE.
CAR-COUPPLINGS.102,272. T. L. JONES.
STEAM CONDENSER102,273. JAMES FRANKLIN KELLOGG.
BINDING-GUIDE FOR SEWING-MACHINE.102,274. RICHARD A. KENDALL.
WILLIAM KENDALL.
HOISTING-MACHINE.

102,275. J. C. KENT AND H. C. RICH.
PNEUMATIC HOIST.102,280. A. H. LEACH.
CARRIAGE WHEEL.102,281. J. D. LEACH.
NAVIGATOR'S BEARING INDICATOR.

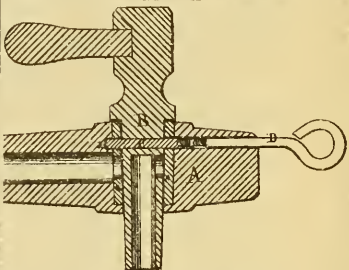
102,282. H. T. LEE. PISTON PACKING.

102,283. H. LEE.
MANUFACTURE OF RAILROAD RAILS.102,285. LICHTENSTADT &
PENTLARGE BUNG.

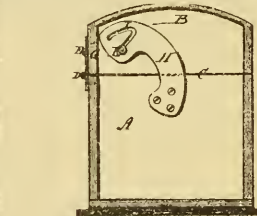
102,286. C. V. LITTLEPAGE. SAW.

102,287. J. C. LUDWIG.
BOILER FURNACE.102,288. J. H. LUFBERY
ROSSING MACHINE.102,289. E. J. MALLET, JR. &
W. S. WARD. NURSING BOTTLES.

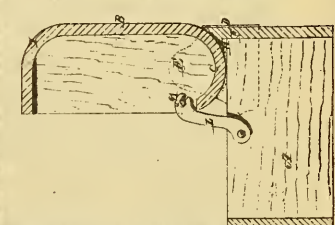
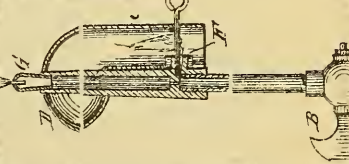
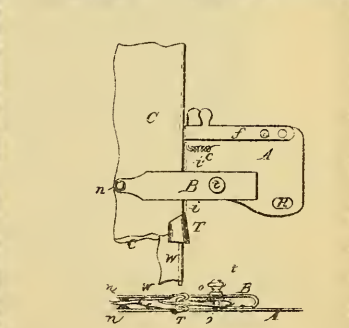
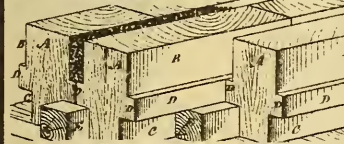
102,290. V. L. MAXWELL. FAUCET LOCK.



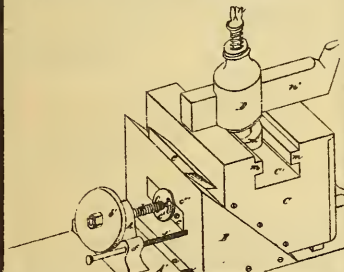
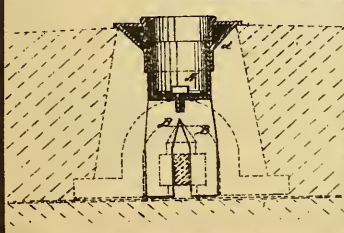
102,291. W. S. MAYO. TRUNK.



102,292. W. S. MAYO. TRUNK.

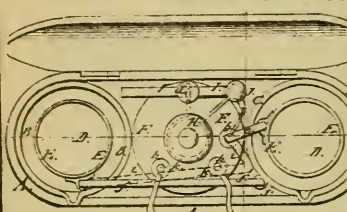
102,293. A. L. MCKAY.
VAPOR BURNER.102,294. MELLEN, VAN SANDT &
PALMER. SEWING-MACHINE RUFFLER.102,277. S. KNEASS.
WOOD PAVEMENT.

102,278. C. KNOX. TOOL REST.

102,279. A. P. LAWSHA.
FEED REGULATOR.

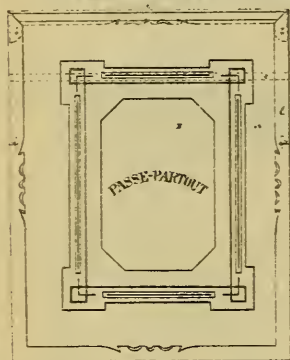
102,295, CURT W. MEYER.

POCKET INDUCTION APPARATUS.



102,296, P. MIGNOT.

FRAME FOR PASSE-PARTOUTS.



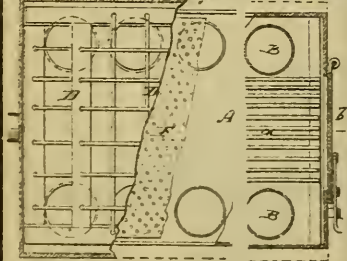
102,297, ROBERT A. MILLER.

BOOTS AND SHOES.



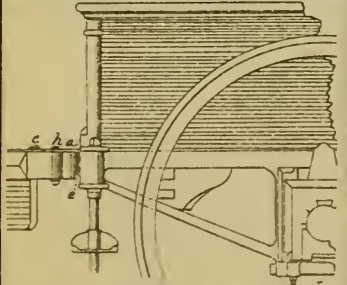
102,298, JOSEPH MONGENT.

FRUIT-DRYERS.



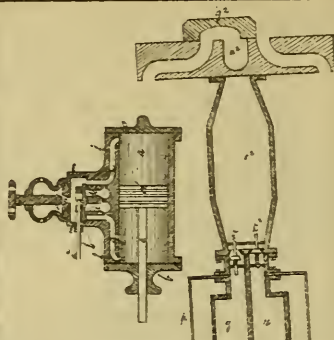
102,299, GEO. F. MORSE.

FOOT-BOARD FOR LOCOMOTIVES.



102,300, JOHN S. MORTON.

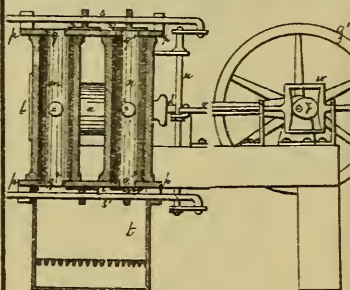
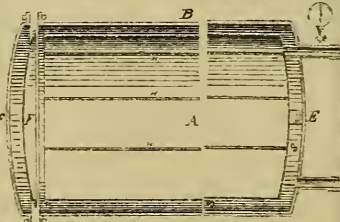
PNEUMATIC VACUUM-ENGINE.



102,301, JOHN S. MORTON.

JOS. H. LANING.

PNEUMATIC VACUUM-ENGINE.

102,302, GEO. H. MUNROE. APPARATUS
FOR COOKING MEAT BY STEAM.

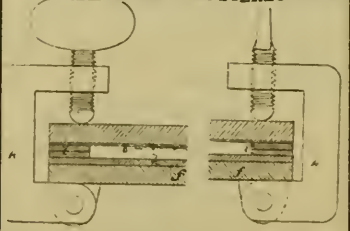
102,303, HARVEY L. MYERS.

WINDOW-SASH.



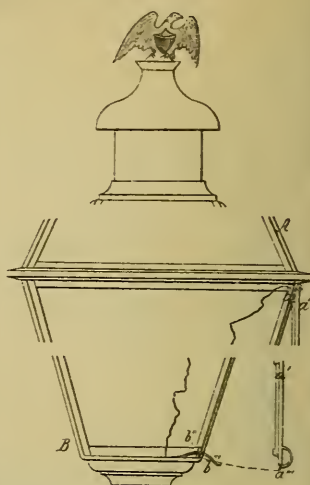
102,304, M. NELSON.

MOLDS FOR STEREOTYPES.



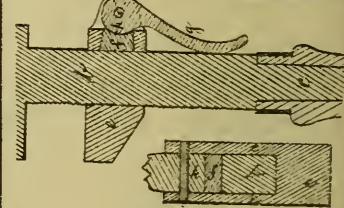
102,305, JOSEPH NEUMANN.

STREET-LANTERNS.

102,306, JOSIAH H. NICHOLS. CUTLERY.
WILLIAM BOWER.

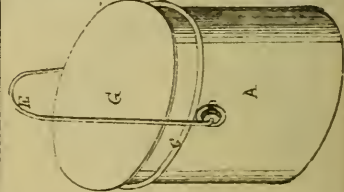
102,307, JOHAN F. NORDQUIST.

WRENCHES.



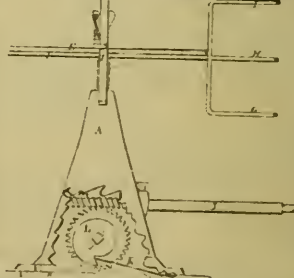
102,308, CHARLES R. OTIS.

PAINT-PAILS.



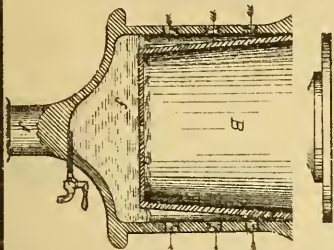
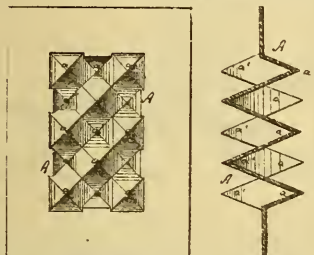
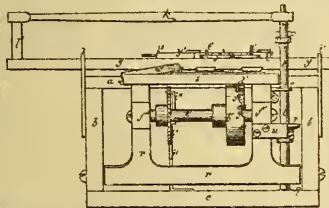
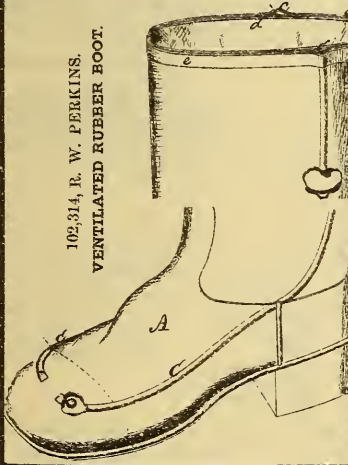
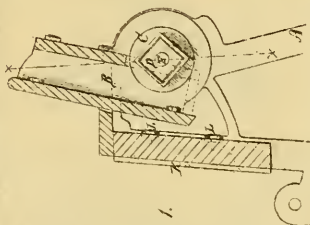
102,309, CAROLINE PARKS.

SWIFT AND REEL.

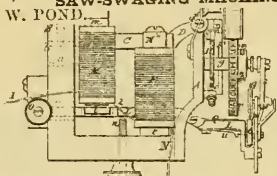
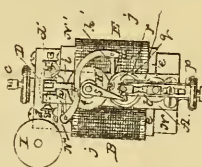
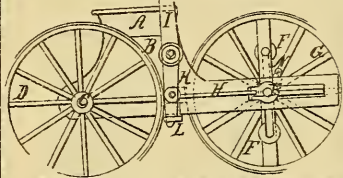
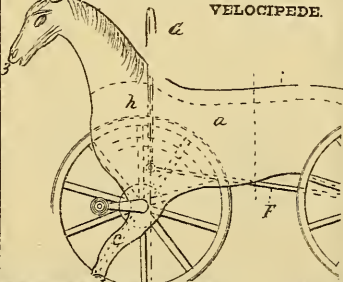
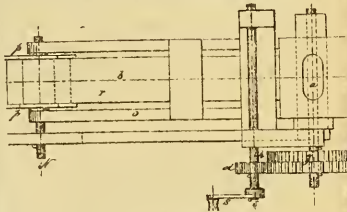
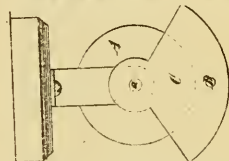


102,310, JOHN H. PARSONS. BROOM.

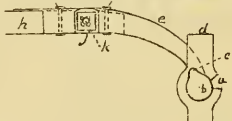
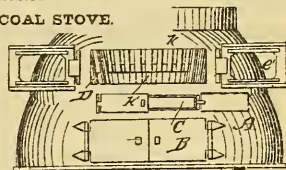
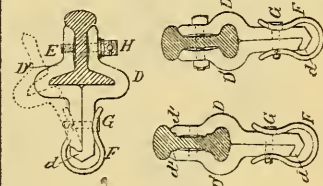
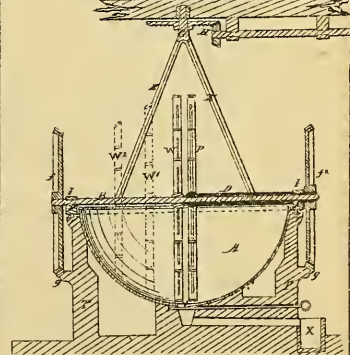


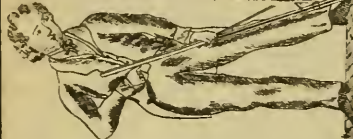
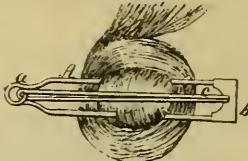
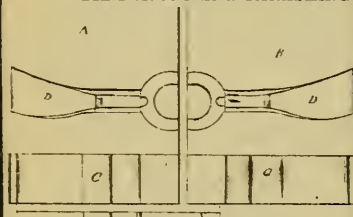
102,311, CHAS R. PENFIELD.
FLOWER-POTS.102,312, ABRAHAM LIDDON PENNOCK.
RADIATING OR BOILER-PLATE.102,313, JOHN PEPPER.
KNITTING-MACHINE.102,314, R. W. PERKINS.
VENTILATED RUBBER BOOT.102,315, GEORGE M. PETERS.
ADJUSTABLE METALLIC
DASHER FOR VEHICLES.102,316, BENJAMIN F. PICKETT.
RAILWAY CAR-ROOF102,317, JOHN X F. PIEHL.
SCHOOL-DESK.

102,318, LEVI W. POND. SAW-SWAGE.

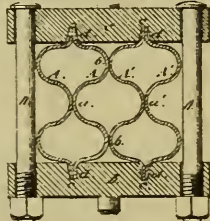
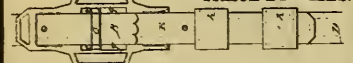
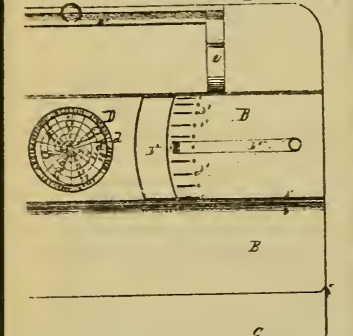
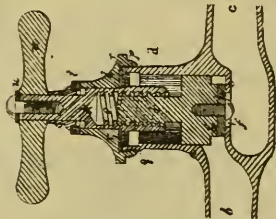
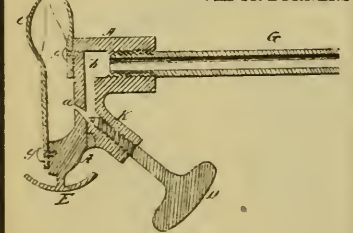
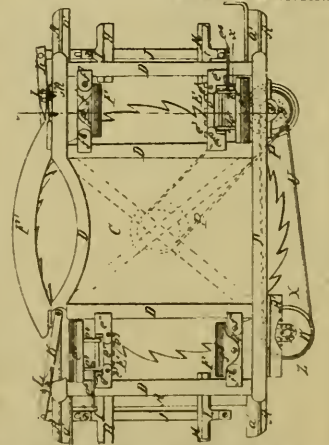
102,319, SAW-SWAGING MACHINE.
LEVI W. POND.102,320, L. POPE AND T. A. EDISON.
PRINTING TELEGRAPH APPARATUS.102,321, WM. QUINN.
VELOCIPEDS.102,322, JOEL H. RHODES, M. D.
WM. REED.
VELOCIPED.102,323, MARTIN A. ROWE.
CRANK-MOTION102,324, ELLIOT SAVAGE.
MANUFACTURE
OF ALLOYS OF MANGANESE.102,325, ALFRED SCATCHARD.
APPARATUS FOR THE
MANUFACTURE OF ABRATED BREAD.102,326, PETER J. SHIETS.
SHADE-ROLLER ATTACHMENT.

102,327, HUGH SMITH. SLEIGHS.

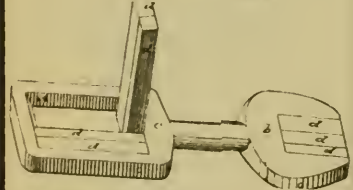
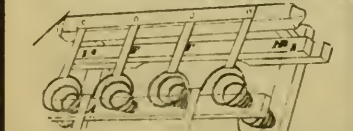
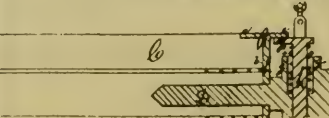
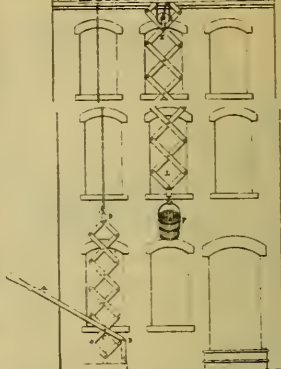
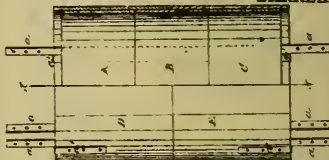
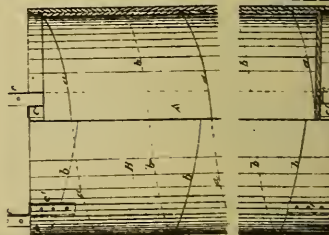
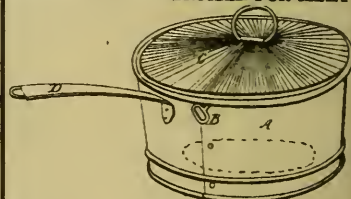
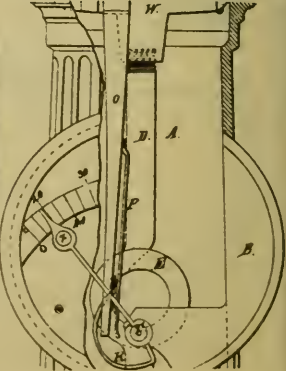
102,328, J. SPEAR.
COAL STOVE.102,329, C. E. SPOONER.
GEO. A. HUDDART.
RAILWAY-RAIL JOINTS102,330, JOHN STAINTHORP.
ISAAC COLE.
MACHINE FOR MIXING PAINT,
SOAP, AND OTHER MATERIALS.

102,331, F. H. STAUFFER.
CARPET-TACKING MACHINE102,338, A. VOGEL.
F. KREBS. HAIR-CURLING PINS.102,332, C. H. THOMPSON.
MACHINE TEETH
DIE FOR MAKING THRASHING102,339,
THOMAS WARD.
VAPOR-BURNERS.

102,340 JAMES WAYLAND. SPRINGS.

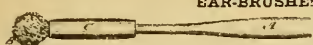
102,333, JAMES THORNTON.
CHARLES F. DEMMEN.
TRACE-BUCKLES.102,334, E. PALMER TIFFANY.
PAPER-FOLDERS.102,341, DARIUS WELLINGTON.
FAUCETS.102,342, JAS. S. WETHERBY.
LAMP-BURNERS.102,335, THOMAS TULLY.
VAPOR-BURNERS102,343, E. T. WHEELER.
SHINGLE-MACHINE.

102,336, G. UTLEY WRENCH

102,337, M. VAN VLECK.
LAWRENCE VAN VLECK.
SPRING BED-BOTTOM.102,344, J. S. WHITNEY.
CURTAIN-FIXTURE102,345, NELSON J. WILKINSON.
HOISTING-MACHINES.102,346, HENDERSON WILLARD.
BARREL102,347, HENDERSON WILLARD.
BARREL102,348, HENDERSON WILLARD.
BROILER FOR MEAT102,349,
WILLIAM WILSON.
DAVID WILSON.
BOTTLE-STOPPERS.102,350, EDWIN A. WOOD.
PRESSURE-GAUGE.

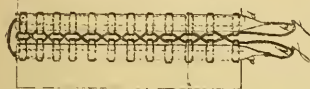
102,351, GEORGE W. WOOD

EAR-BRUSHES.



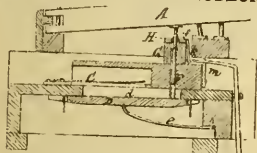
102,352, R. WRIGHT.

LACING FOR SHOES.

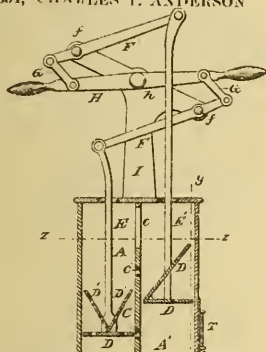


102,353, A. ZAWADSKI.

BASSO TENUTO FOR MELODEONS.



102,354, CHARLES T. ANDERSON



102,355, PHILANDER PAKER.

LAMP-BURNERS.



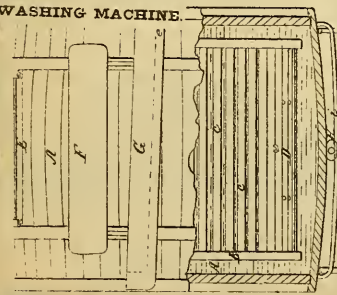
102,356, S. BEATTY.

PERFORATED WIRE.

102,357, SAMUEL BECKER. CAR-MOVER.
PETER LOUCKS.

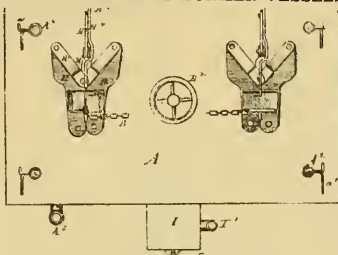
102,358, N. W. BECKWITH.

WASHING MACHINE.



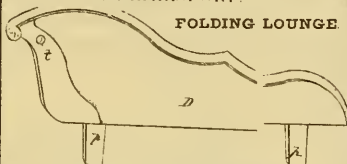
102,359, F. W. BEERS.

TANK FOR RAISING SUNKEN VESSELS.



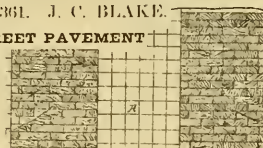
102,360, J. PETERSDORF.

FOLDING LOUNGE.



102,361, J. C. BLAKE.

STREET PAVEMENT.



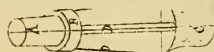
102,362, L. R. BLAKE.

MANUFACTURE OF BOOTS AND SHOES.



102,363, V. W. BLANCHARD.

PINION.

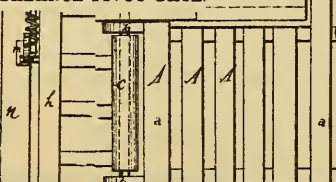
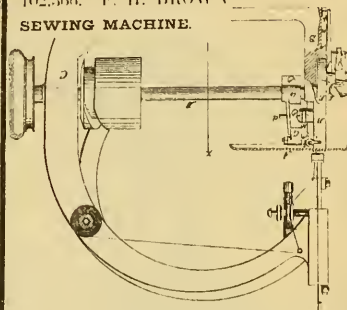
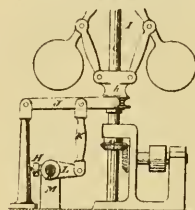


102,364, A. P. BROWN. WINDMILL.



102,365, D. BROWN.

BALANCE PIVOT GATE.

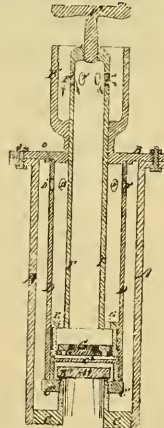
102,366, F. H. BROWN.
SEWING MACHINE.102,367, W. BROWN. VARIABLE CUT
OFF VALVE GEAR AND VALVE.

102,368, E. F. BURROWS.

SHUTTLE FOR LOOMS.

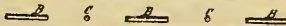


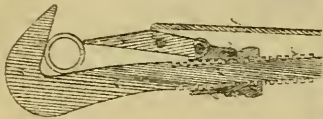
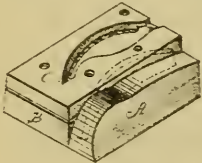
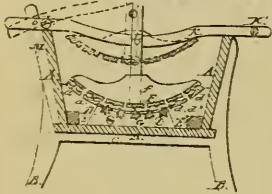
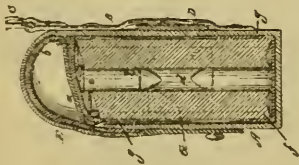
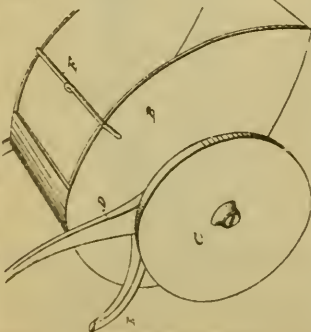
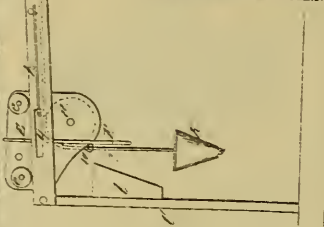
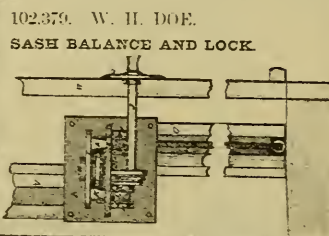
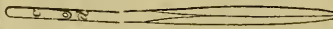
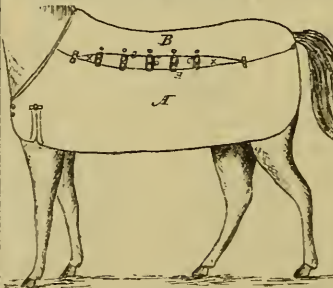
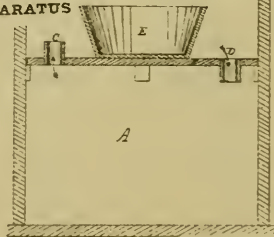
102,369, A. CARVER. PUMP.



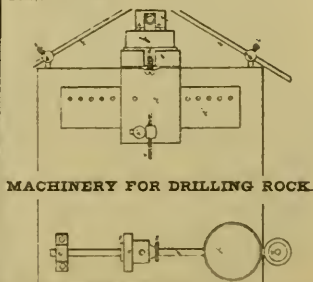
102,370, J. C. CARY

STRAP FASTENING FOR PACKAGES.

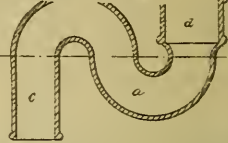
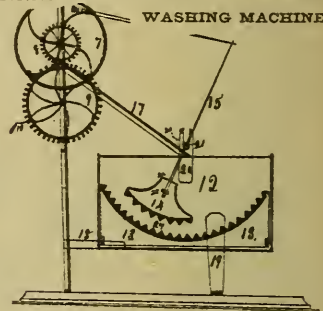
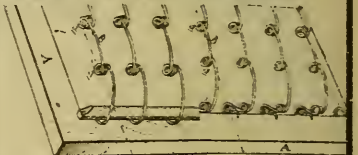
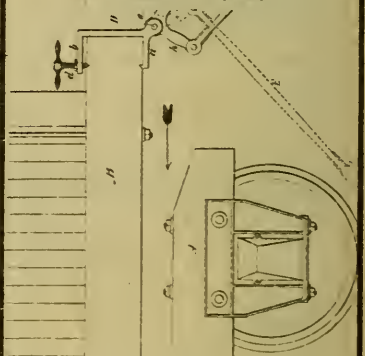
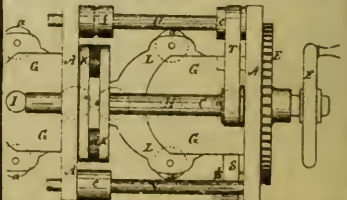


102,371. ATRY GATES COES.
PIPE-TONGS.102,372. HORACE COLBURN.
DIE FOR FORGING OX-SHOES.102,373. HANSON COOK.
WASHING-MACHINE.102,374. PATRICK H. COYLE.
BOILER-TUBE CLEANER.102,375. S. A. DAY.
CARTRIDGE CASE.102,376. P. K. DEDERICK.
COAL BARROW.102,377. WELMAN DE WITT.
CONVEYER-BLOCKS.102,378. LANSING DOCKSTADER.
COATING AND BRONZING IRON.102,379. W. H. DOE.
SASH BALANCE AND LOCK.102,380. JAMES W. DONALDSON.
DANIEL SHEETS.
NEEDLES.102,381. C. P. EAGER.
VENTILATED HORSE COVER.102,382. A. B. ELY.
REFRIGERATOR AND COOLING
APPARATUS

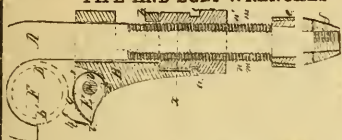
102,383. W. H. ELLIOT.



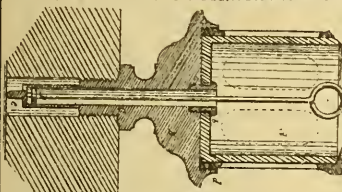
MACHINERY FOR DRILLING ROCK.

102,384. A. L. FINCH.
PATTERN FOR CASTINGS.102,385. E. FISEUS AND S. ARNEY.
WASHING MACHINE102,386. M. FLANIGAN.
SPRING SEAT AND BED BOTTOM102,387. H. FLEISCHMANN.
MANUFACTURE OF YEAST.102,388. J. FOREMAN.
DEVICE FOR MOVING CARS.102,389. T. FOWLER.
MACHINE FOR ROLLING METAL BARS.

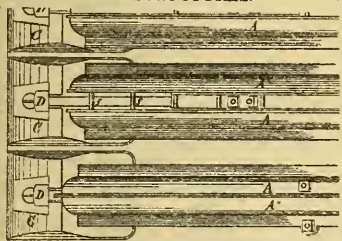
102,390, LOUIS FREY.
GEORGE MACARDLE.
PIPE AND BOLT-WRENCHES



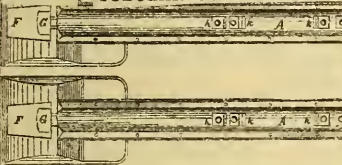
102,391, GREGORY GERDOM, LUBRICATOR



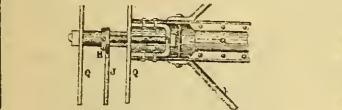
102,392, DAVID HAMMOND.
JOB ABBOTT
TUBULAR ARCH GIRDER FOR BRIDGES
AND OTHER STRUCTURES.



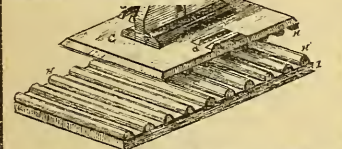
D. HAMMOND AND J. ABBOTT.
102,393. TUBULAR ARCH GIRDER.



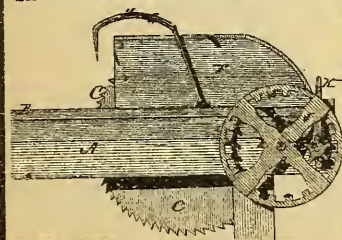
102,394. TRUSS GIRDER BRIDGE.
D. HAMMOND AND J. ABBOTT.



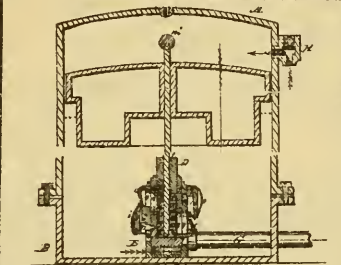
102,395. B. R. HAND.
WASHING MACHINE.



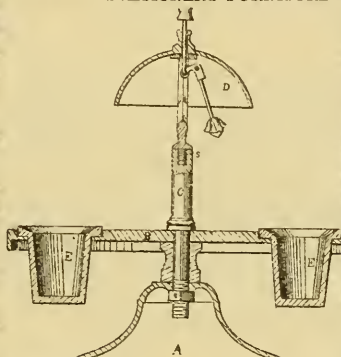
102,396. M. HART MACHINE FOR
SAWING SHINGLE BOLTS



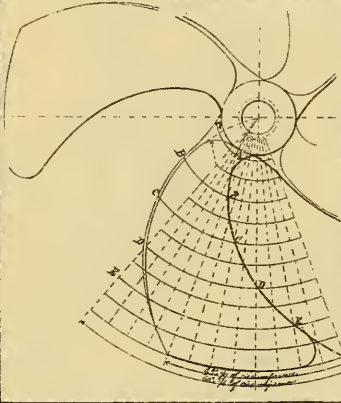
102,397, MICHAEL HEY, HYDRAULIC
AIR-COMPRESSING APPARATUS



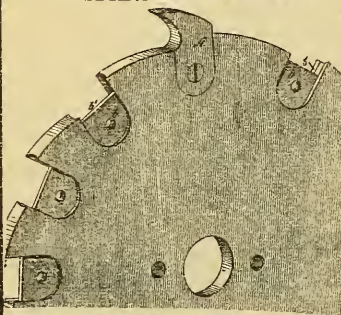
102,398, ADALINE D. HUBBS.
STATIONERY FURNITURE.



102,399, HERMANN HIRSCH.
SCREW-PROPELLERS.



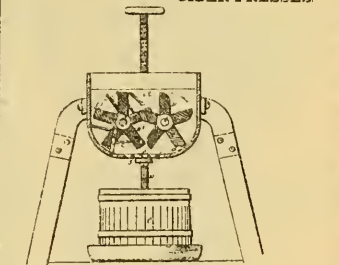
102,400, PATRICK J. HOGAN.
DETACHABLE SAW-TEETH.



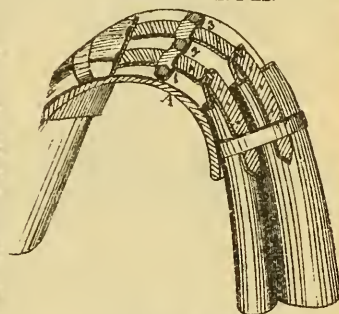
102,401, GEO. HOUGHTON. SHANK.
STEPHEN MOORE. STIFFENER.
HOMER ROGERS.



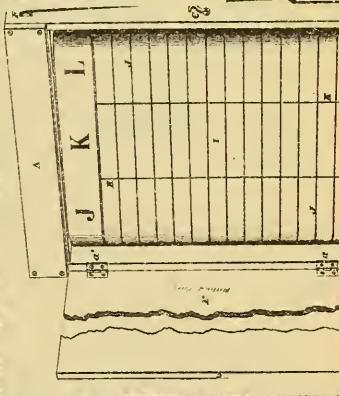
102,402, FRANCIS HOVEY.
CIDER-PRESSES



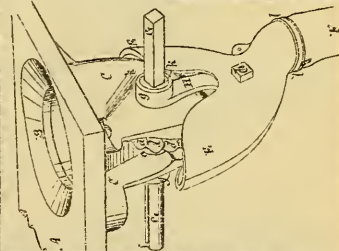
102,403, JAMES S. HUSTON.
HORSE-COLLAR PAD.



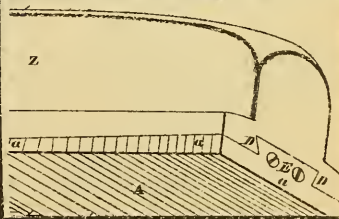
102,404. W. C. HUSTON
ALPHABETICAL INDEX



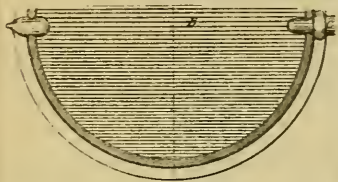
102,405, JOSEPH INGELS.
SEEDING-MACHINES.



102,406, JULIUS KATZ, PLANE-STOCK



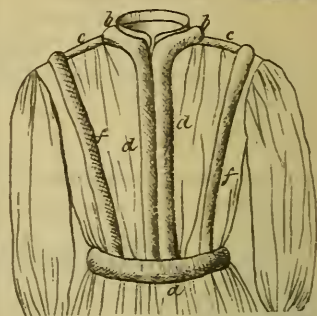
102,407, WILLIAM J. KEEP.
STOVE-PIPE DAMPER



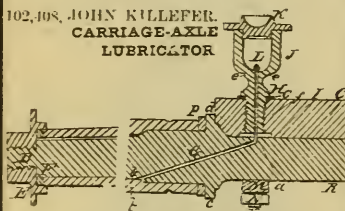
102,413, O. R. LUTHER.
ADJUSTABLE FEET FOR CLOCK-CASES.



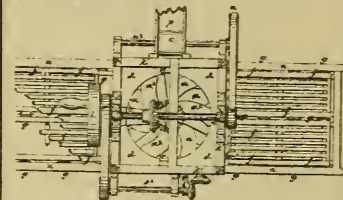
102,418, WILLIAM MORRIS, M. D.
LIFE-PRESERVING GARMENTS.



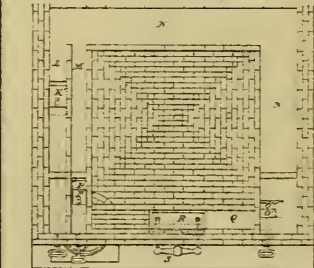
102,408, JOHN KILLEFER.
CARRIAGE-AXLE
LUBRICATOR



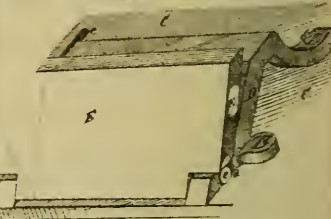
102,414, JAMES B. LYONS.
PEAT-MACHINES



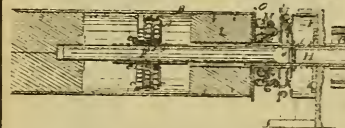
102,415, TERRENCE P. MAHON.
BAKERS' OVEN.



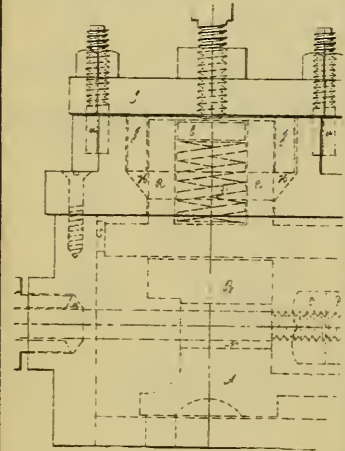
102,420, WILLIAM H. MOSSTELLER.
TOOL-REST FOR GRINDSTONES



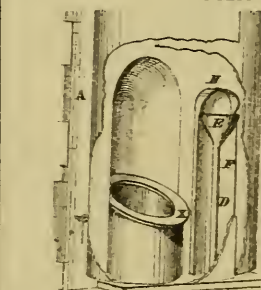
102,409, A. H. KNAPP.
GEORGE W. BAILEY.
CURTAIN-FIXTURE



102,410, JAMES LARKIN SLIDE-VALVES



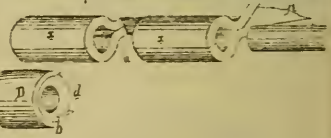
102,416, S. MALES
PUBLIC URINAL



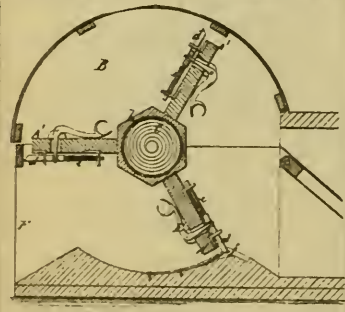
102,421, WILLIAM RHODA NICHOLS.
HELICAL SPRINGS



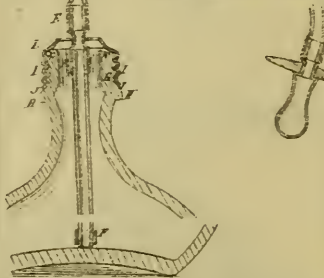
102,422, WILLIAM RHODA NICHOLS.
CHARLES WILLIAMS PICKERING.
SPRINGS FOR RAILWAY
CARS AND OTHER VEHICLES



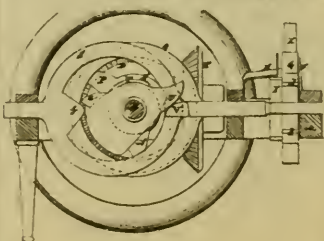
102,411, JAMES H. LORD. ANIMAL TRAP.



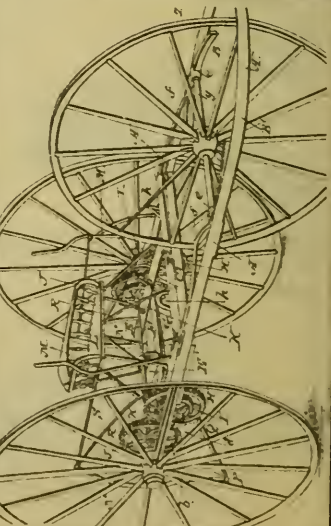
102,417, JOHN L. MASON.
NURSING-BOTTLES.



102,418, JOHN MORGAN, JR.
BOLT AND RIVET-MACHINE.

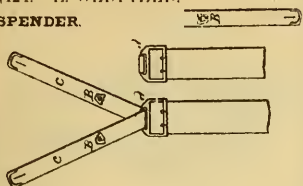
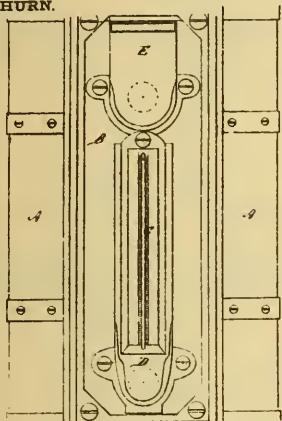
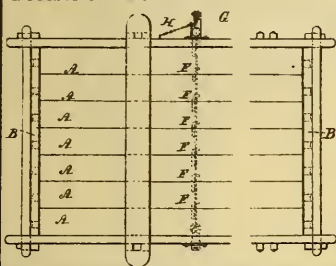


102,423, STAS NISLOSDUFF.
VELOCIPEDES



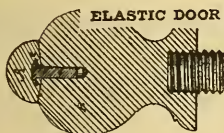
102,412, R. A. LUCAS
EAVES TROUGH HANGER



102,424. E. OLDFIELD.
SUSPENDER.102,425. G. N. PALMER.
CHURN.102,426. C. F. PARKER.
DUMPING WAGON.

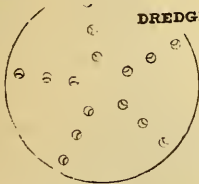
102,427. D. E. PECK.

ELASTIC DOOR GUARD



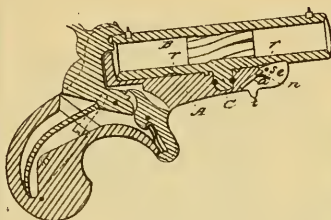
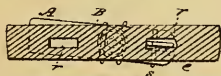
102,428. D. W. PEPPER.

DREDGING CAN.



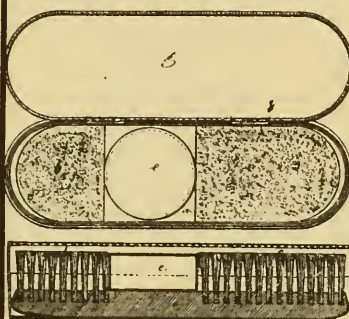
102,429. S. M. PERRY.

BREECH LOADING PISTOL.



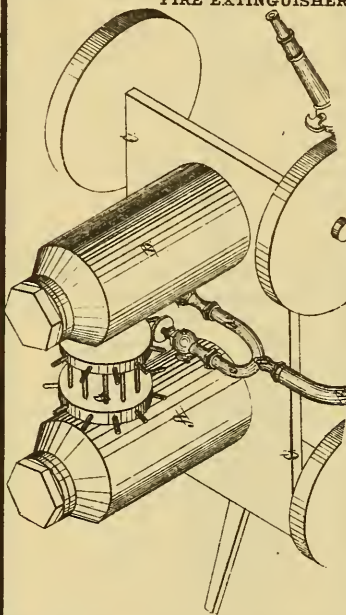
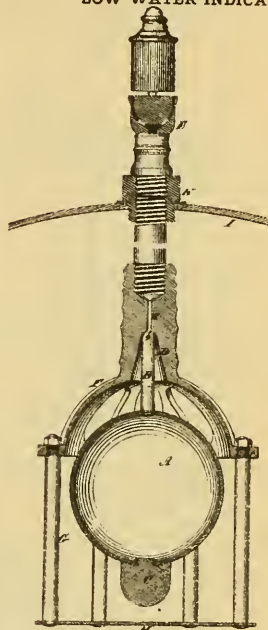
102,430. E. A. PIERCE.

PORTABLE SHOE BRUSH AND BOX



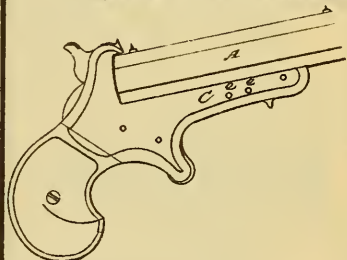
102,431. G. F. PINKHAM.

FIRE EXTINGUISHER.

102,433. P. W. REINSHAGEN.
LOW WATER INDICATOR

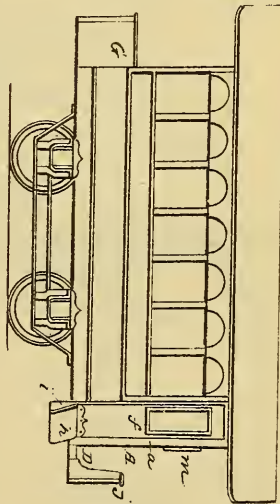
102,434. E. S. RENWICK.

BREECH LOADING FIRE ARM.

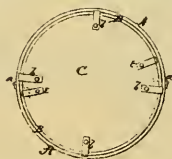
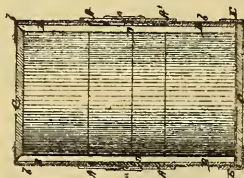


102,435. J. E. RIDGWAY.

STREET CAR.

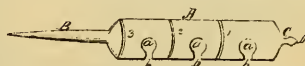


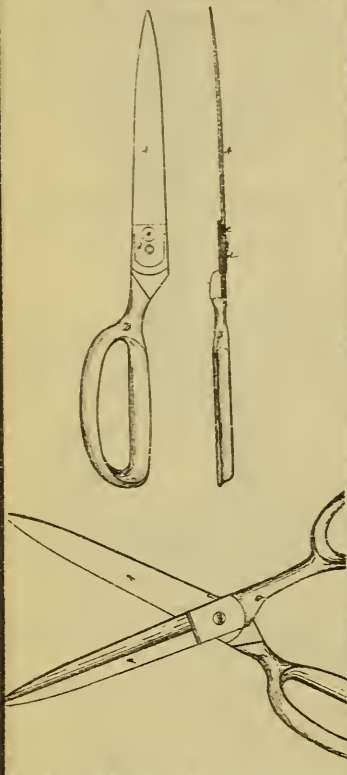
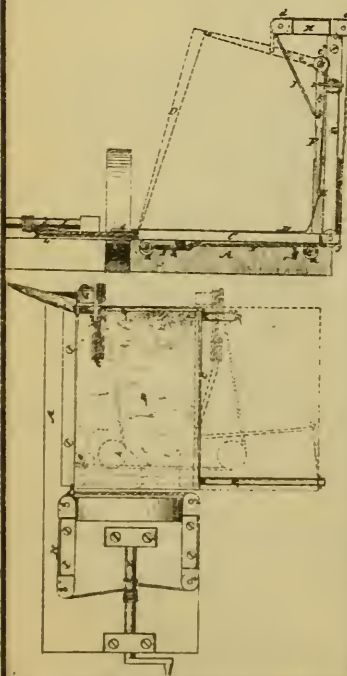
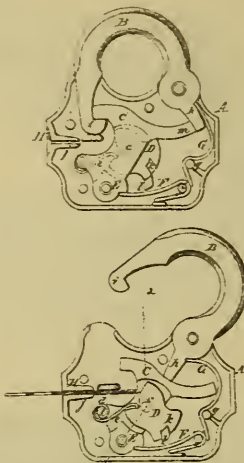
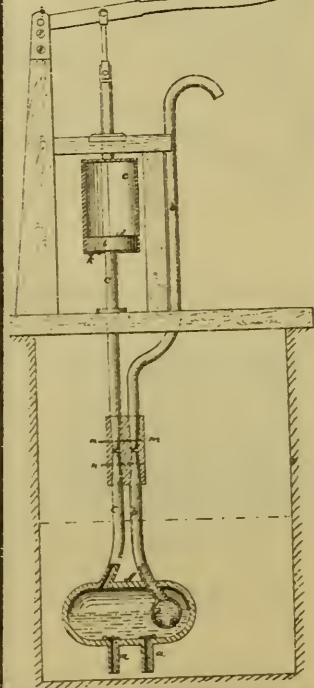
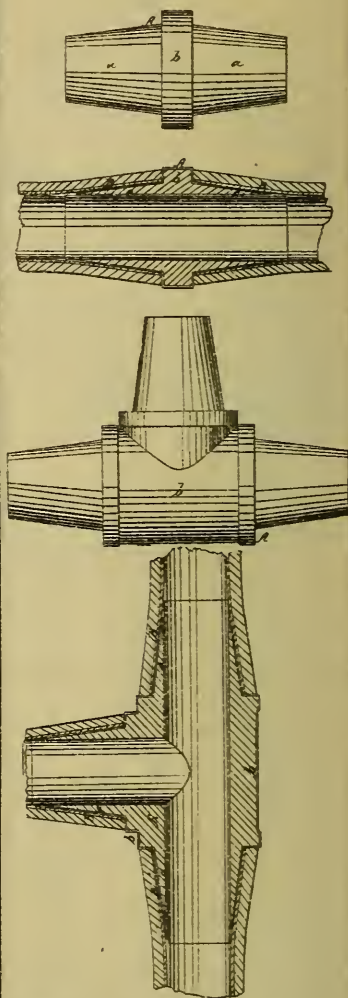
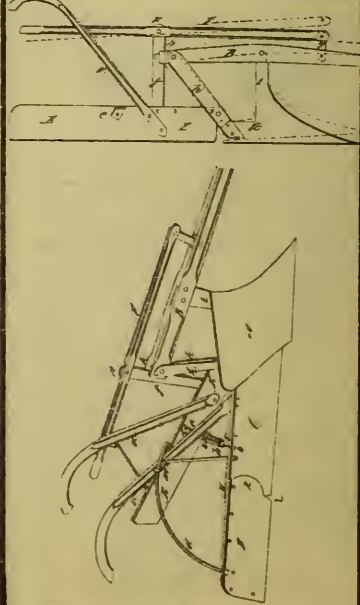
102,432. H. G. PORTER. BARREL.



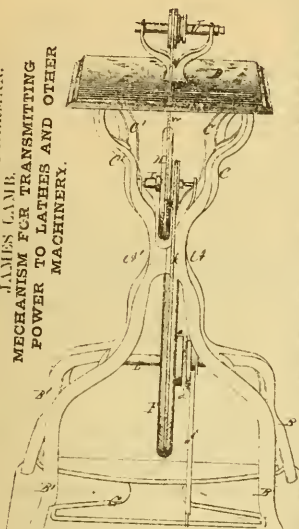
102,436. J. F. RUSSELL.

BUTTON SHANK GAGE.



102.437. J. RYALS.
MANUFACTURE OF SHEARS.102.435. W. I. SAPP.
MANUFACTURE OF FERTILIZER.102.439. J. B. SAWYER.
DROPPING PLATFORM
FOR HARVESTERS.102.440. H. S. SHEPARDSON.
PADLOCK.102.441. J. SIDONS.
METALLIC ROOFING.102.442. J. A. SINCLAIR.
PUMP.102.443. I. SMITH.
CONNECTION FOR LEAD PIPE JOINTS102.444. P. M. STEPHENS.
ROAD SCRAPER.

102,445, JAS. F. STEWART.
FREDRICH KLINKERMAN.
JAMES CAMB.
MECHANISM FOR TRANSMITTING
POWER TO LATHES AND OTHER
MACHINERY.



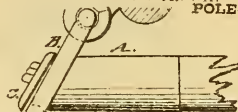
102,451, GEO. D. VOLKMAR.

METAL-ROOF PROTECTOR



102,456, CHARLES W. WILCOX.
JOSEPH D. WILCOX.

POLE-SOCKET



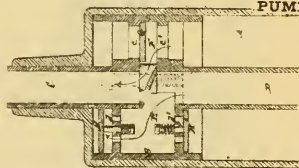
102,457, J. D. WILLOUGHBY.

LAMP-BURNERS

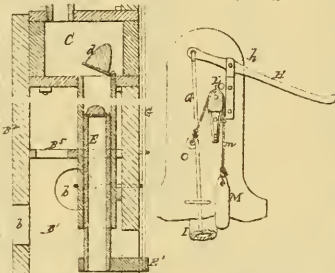


102,458, JAMES EDWARD WILSON.

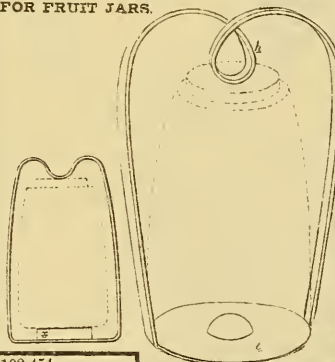
PUMPS



102,452, H. WADSWORTH. PUMPS.



102,453, W. P. WALTER. HOLDER
FOR FRUIT JARS.



102,459, JAS. F. WOOD. GOUGE.

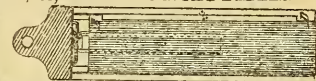


102,460, OSCAR D. WOODBURY.

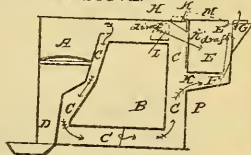
BRUSHES



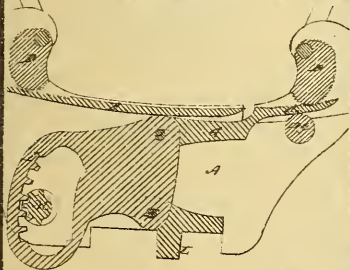
102,461, D. D. FOLEY. TAG-LABELS.



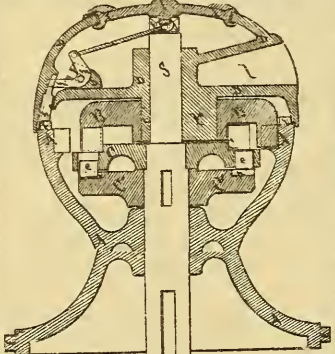
102,462, R. M. HERMANC.
COOKING STOVE.



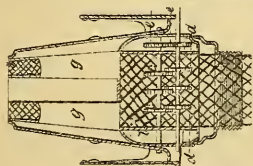
102,448, THOMAS SULLIVAN.
TIRE-UPSETTING MACHINE



102,454, ADDISON GOODYEAR WATERHOUSE.
ROTARY MECHANICAL MOVEMENT

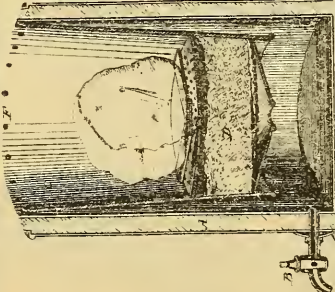


102,449, ALVIN TAPLIN.
LAMP-BURNERS.

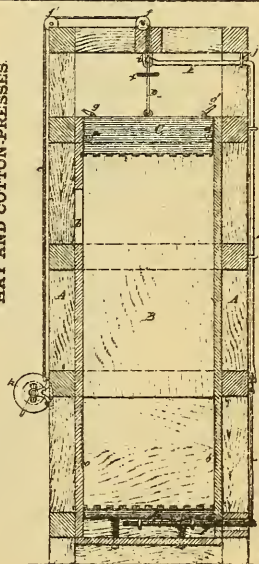


102,450, WILLIAM A. TORREX.
PREVENTING MILDEW AND DECAY
IN SAILS, AWNINGS, TENTS,
TARPAULINS, AND OTHER
ARTICLES AND FABRICS.

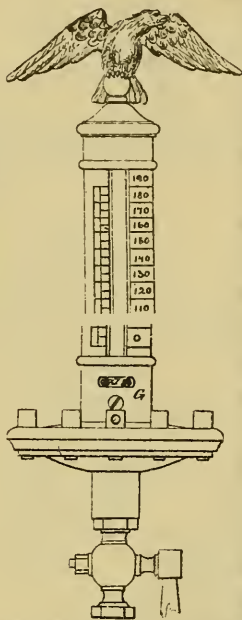
102,455, JAMES E. WHITE.
COMBINED FILTER AND COOLER



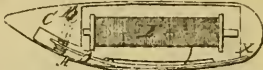
102,463, HENRY R. WALTON.
HAY AND COTTON PRESSES



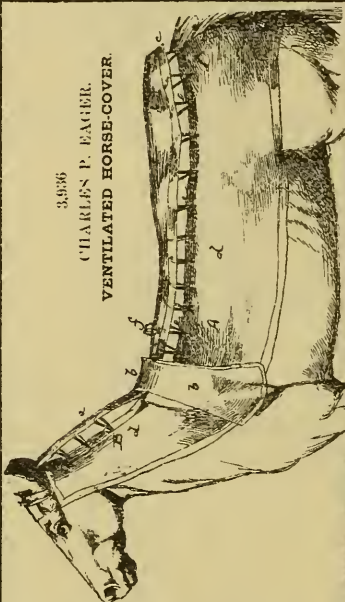
102,464,
MATTHEW E. CAMPELLE,
ADJUSTMENT OF MERCURIAL
PRESSURE-GAUGES.



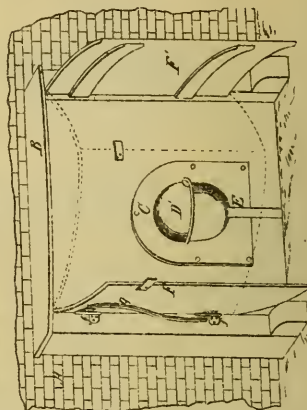
3,955. JAMES C. WADE.
SHUTTLE FOR SEWING-MACHINE.



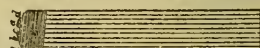
3,936
CHARLES P. EAGER.
VENTILATED HORSE-COVER.



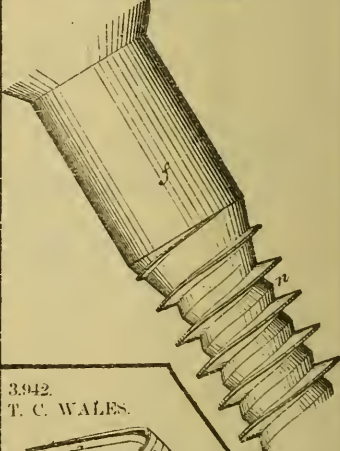
3,939. SAMUEL WALES.
GRINALS



3,940. EZRA CLARK.
TOOL FOR CUTTING SCREW-THREADS.



3,941. EZRA CLARK, SCREWS

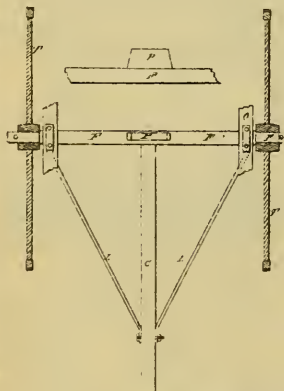


3,942.
T. C. WALES.

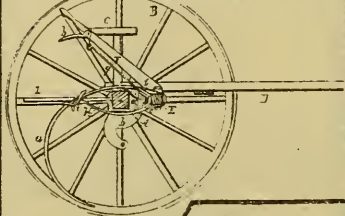


WATER PROOF SHOE.

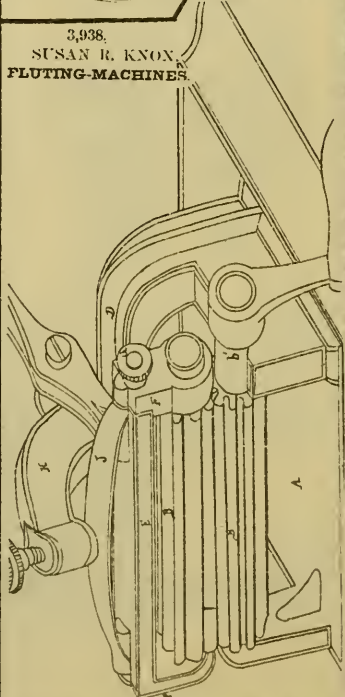
3,932. JULIUS GERBER. CULTIVATORS



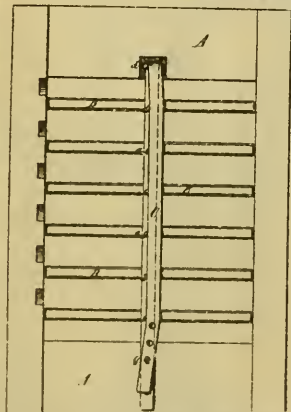
3,937. WILLIAM EMMONS.
HORSE HAY-RAKES.



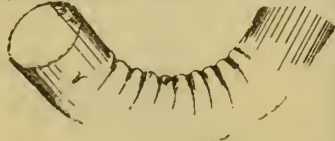
3,938.
SUSAN R. KNOX.
FLUTING-MACHINES.



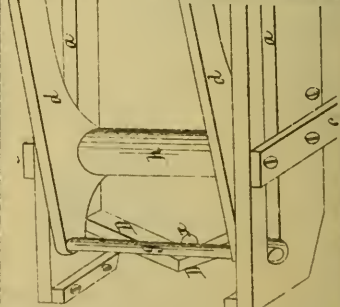
3,933. STEPHEN HEBRON.
WINDOW-BLINDS



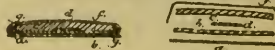
3,934 C. HOELLER. STOVE-PIPE ELBOWS.



3,943. E. B. WALKER.
BUTTER WORKER.



3,944. WILLIAM WILLIAMS.
INSOLE FOR BOOTS AND SHOES.

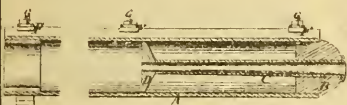
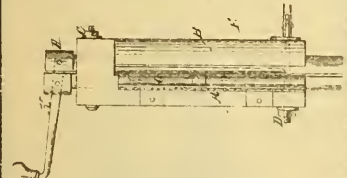
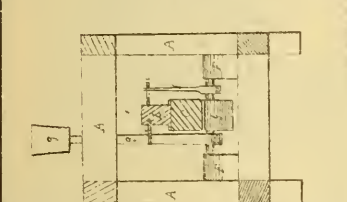
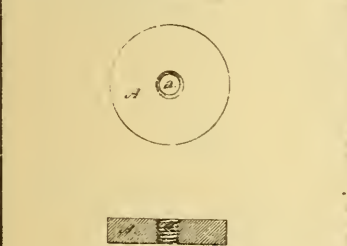
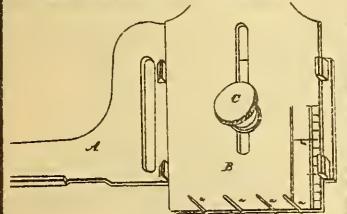
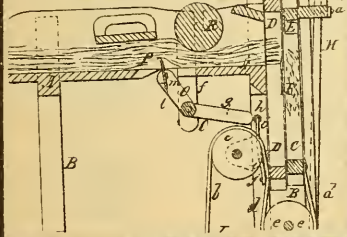


ILLUSTRATIONS OF PATENTS

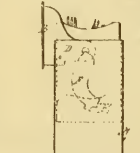
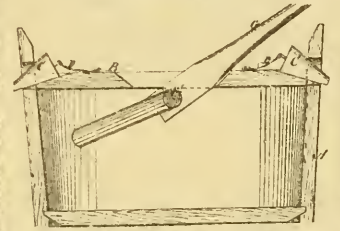
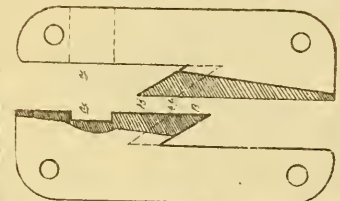
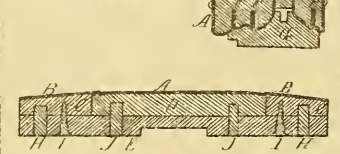
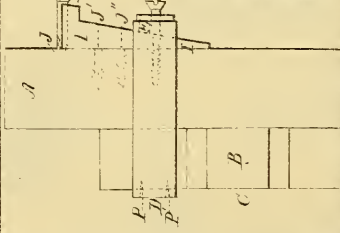
ISSUED FROM

THE UNITED STATES PATENT OFFICE

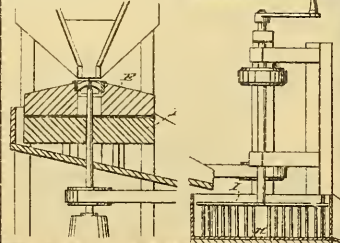
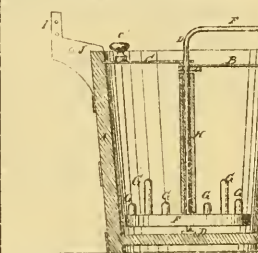
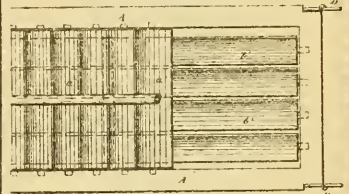
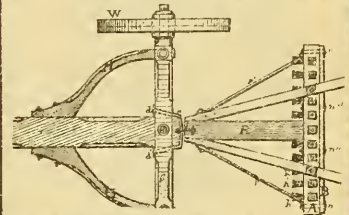
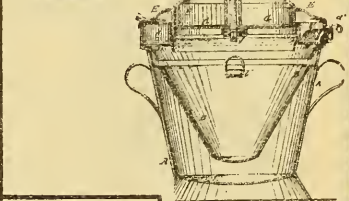
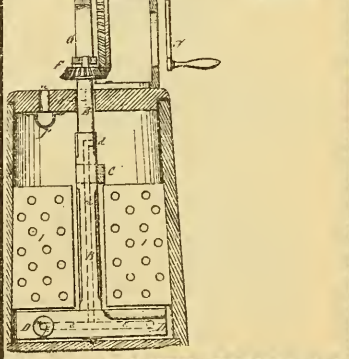
MAY 3, 1870.

102,465, J. N. ADAMS.
TIN-GUTTER MACHINE.102,466, J. N. ADAMS.
TIN-TUBING MACHINE.102,467, M. PASCAL ADAMS.
STAVE-DRESSING MACHINE.102,468, J. D. ALVORD
DIES FOR DRAWING WIRE.102,469, J. S. ALTER.
GUIDE FOR SEWING-MACHINE.102,470, JULIUS AMBRUN.
STRAW-CUTTERS.WILLIAM AVERY.
ALBERT FENTON.
102,471.

NEEDLE-CASES

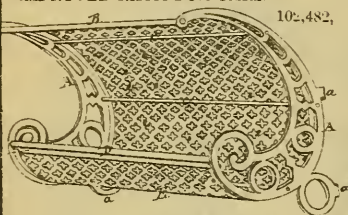
102,472, WILLIAM RADGER.
IMPROVED WASHING-MACHINE.102,473, JAMES M. BAIRD.
IMPROVED FASTENER
FOR BEDSTEADS, TABLES, &c.102,474, JOSEPH BARKER.
SAND-PAPER HOLDER.102,475, JOHN D. BARRIE. DEVICES FOR
ATTACHING PICKER TO
PICKER-STAFF.

102,476, THOS. RATES. ORE-SEPARATORS

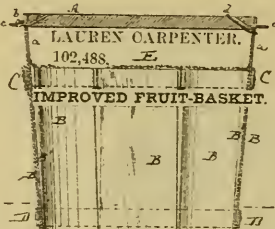
CHARLES BEAN.
SUEL LOGEE.
102,477, WASHING-MACHINE.102,478, WILLIAM C. BETTS.
VENTILATOR FOR WINDOWS.102,479, JOSEPH H. BILLMEYER.
IMPROVED POTATO-DIGGER.102,480, W. H. BLISS.
EARTH-CHAMBER
VESSELS.102,481, CHARLES A. ROOYE.
CHURNS.


ALBERT BRIDGES.
IMPROVED RACK FOR CARS.

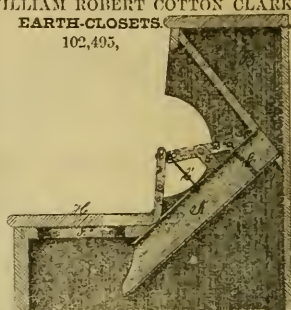
102,482.



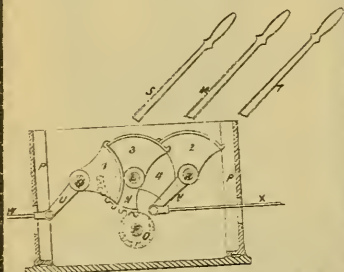
LAUREN CARPENTER.
102,488. E
IMPROVED FRUIT-BASKET.



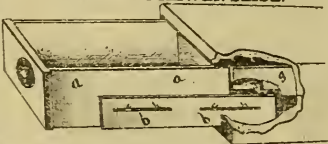
WILLIAM ROBERT COTTON CLARK.
EARTH-CLOSETS.
102,495, 



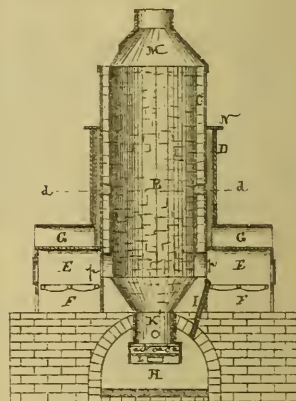
102,483, JOHN BRUNTON.
WORKING AND LOCKING
RAILWAY-SWITCHES AND SIGNALS



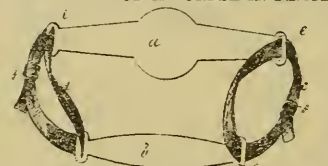
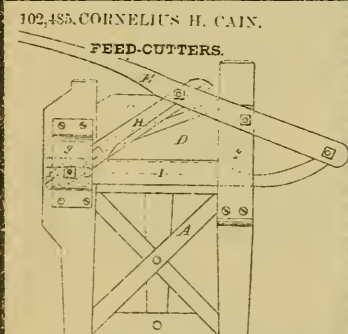
102,489, JOHN L. CHAPMAN.
IMPROVED DRAWER-SLIDE.



102.496. J. CLARKSON AND
G. W. DECKER LIMEKILN.



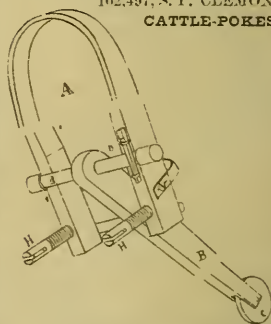
102,484. WILLIAM M. BRYANT.
PREPARING THE PITH OF
CORN-STALKS FOR USE IN THE ARTS.



102,491, PHILIP W. CLARK.
HORSE-POWER



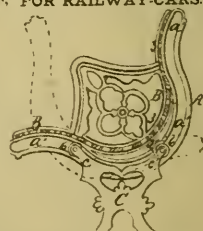
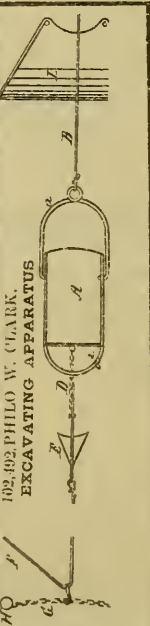
102,497, S. P. CLEMONS.
CATTLE-POKES.



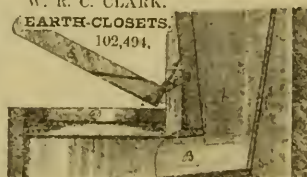
WILLIAM CLARK.
LIFTING-JACKS.
102,493, */9*



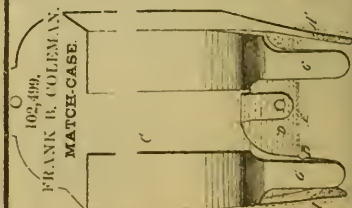
THOS. J. CLOSE. REVERSIBLE SEATS
102,498, FOR RAILWAY-CARS.

102,492, PHILO W. CLARK,
EXCAVATING APPARATUS

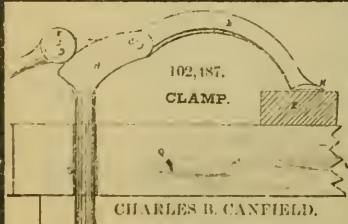
W. R. C. CLARK.
EARTH-CLOSETS.
102,494.



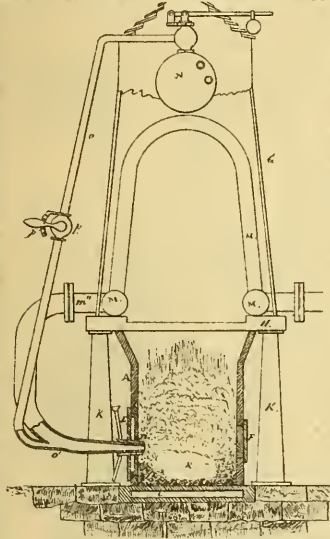
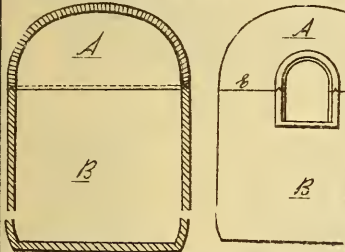
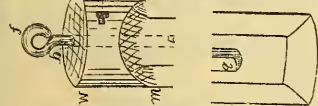
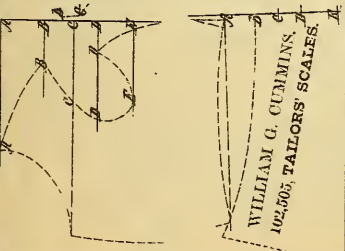
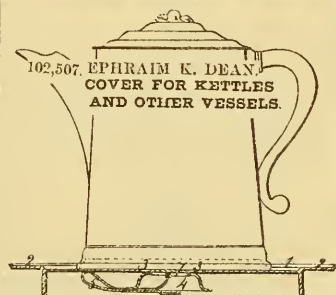
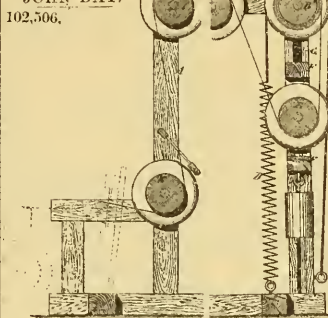
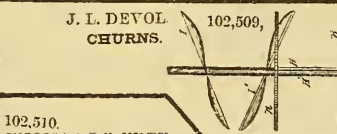
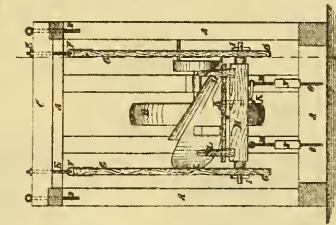
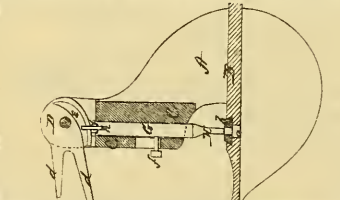
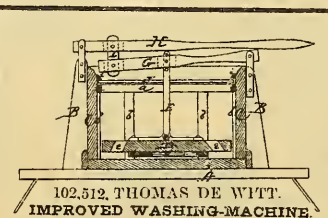
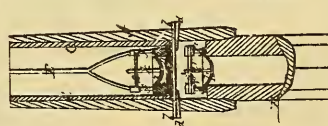
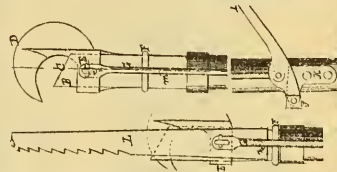
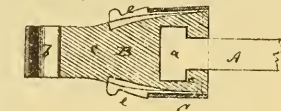
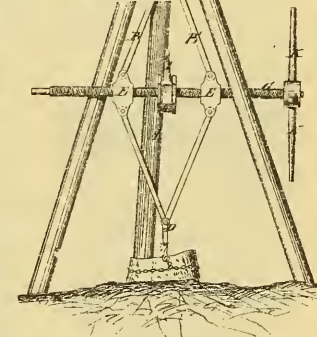
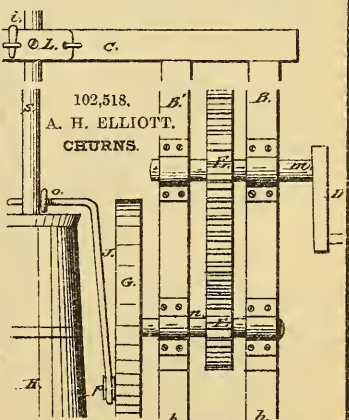
102,499.
FRANK B. COLEMAN.
MATCH-CASE



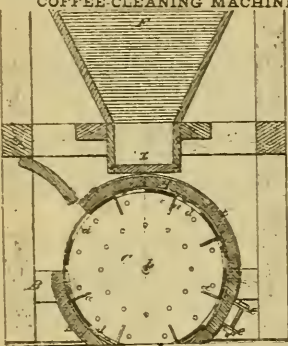
102,187.
CLAMP.



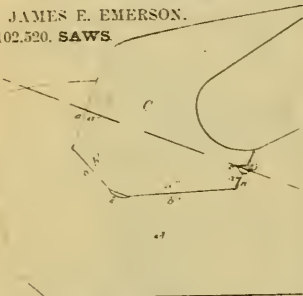
CHARLES B. CANFIELD.

102,500, JOHN COLEMAN.
CAR COUPLINGS.102,501, JOHN J. G. COLLINS.
MANUFACTURE OF MALLEABLE IRON.ROY COMBS.
HENRY J. LEASURE.
102,502, POTS FOR SMELTING GLASS.102,503, M. COOKE. APPARATUS FOR
BLASTING LOGS.102,504, GEORGE COPELAND.
HORSESHOES.WILLIAM G. CUMMINS.
102,505, TAILORS' SCALES.LET-OFF MECHANISM FOR LOOMS.
JOHN DAY.102,507, EPHRAIM K. DEAN.
COVER FOR KETTLES
AND OTHER VESSELS.J. L. DEVOL. 102,509,
CHURNS.102,510, THOMAS DE WITT.
IMPROVED PUNCHING-APPARATUS.102,512, THOMAS DE WITT.
IMPROVED WASHING-MACHINE.102,513, ANDREW DOWNER.
PRUNING-HOOKS.WM. F. DRAPER.
JOSEPH B. BANCROFT.
102,514, IMPROVED SPINDLE-STEP CAP.CHARLES G. DUDLEY.
JACOB GULDEN.
SHAFT OR POLE-COUPLING
FOR CARRIAGES.J. M. EASON.
102,516,
STUMP-EXTRACTORS.102,517, O. L. ELIASON.
MAINSRING-BARREL ATTACHMENT
FOR WATCHES.102,518,
A. H. ELLIOTT.
CHURNS.

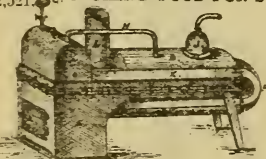
102,519, WM. H. FLTON
COFFEE-CLEANING MACHINES.



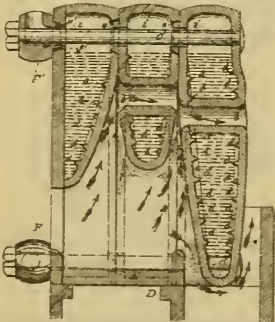
JAMES E. EMERSON.
102,520. SAWS.



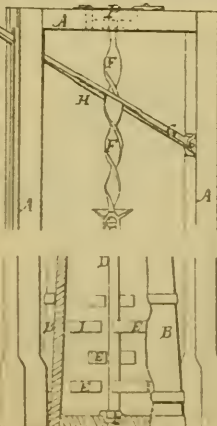
WM. J. ESTES. STEAM-BOILER FOR
102,521. COOKING FOOD FOR STOCK.



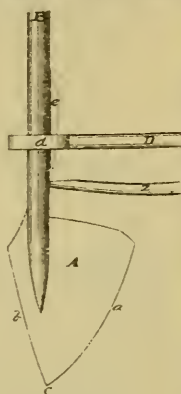
102,522, HAMPTON W. EVANS.
SECTIONAL STEAM-GENERATOR



102,523, FRANCIS THEODORE FAIRCHILD.
CHURNS.



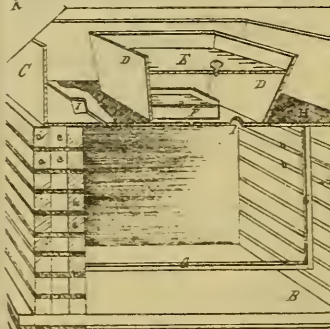
102,524.
JOHN FASIG.
COMBINED HAY AND PRUNING-KNIFE



VANDERLYN HOWARD FELT.
102,527. HARVESTER-RAKES.



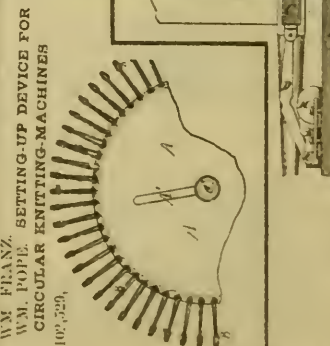
102,526. CHARLES FINN. BEE-HIVES.



102,527, JAMES H. FLYNT.
DUST-RING FOR WATCH-FRAMES

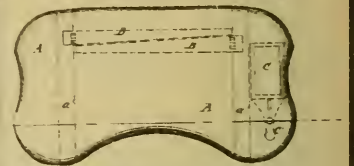


102,528,
ASA FORREST.
IMPROVED TABLE-LEAF
SUPPORT.

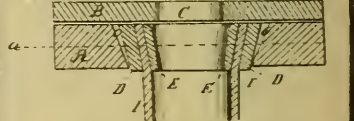


WM. FRANZ.
WM. POPE. SETTING-UP DEVICE FOR
CIRCULAR KNITTING-MACHINES
102,529.

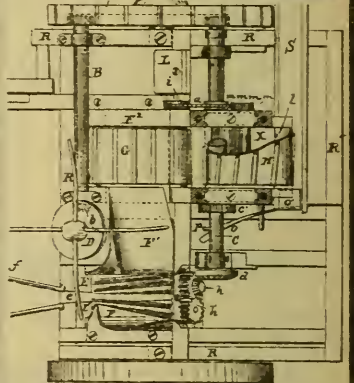
102,530, WILLIAM F. GAMMEL.
IMPROVED LAP-BOARD



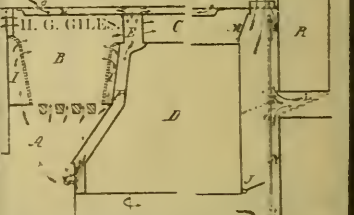
102,531, FRANKLIN GARDNER
FASTENING TUBES IN GRAIN-DRILLS.



102,532. M. A. GETZENDANER.
CORN HARVESTER.



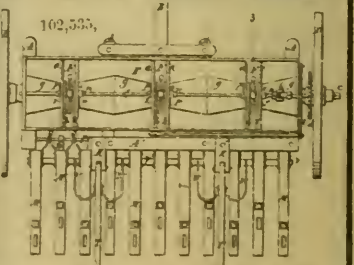
102,533,
COOKING-STOVES

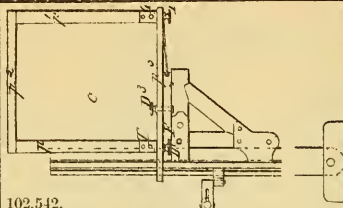
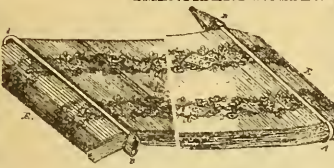


102,534 JANE E. GILMAN.
WORK-HOLDERS

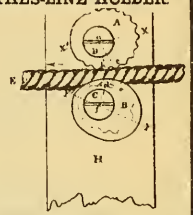
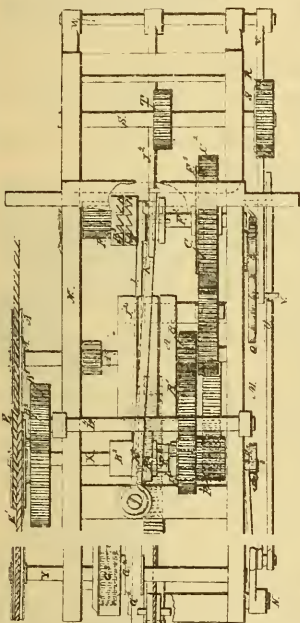


M. L. GORDIAN. SEEDING-MACHINES.

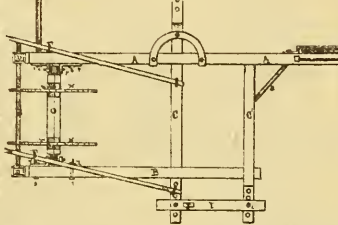
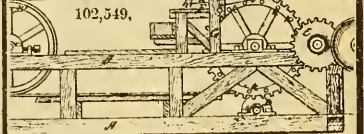
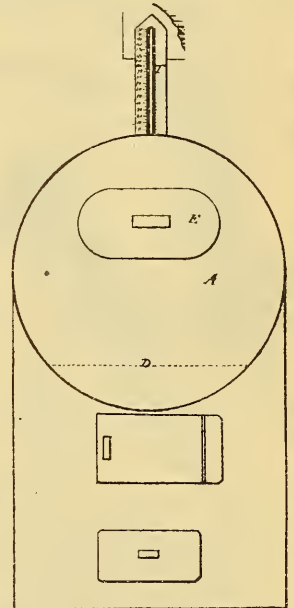


102,536, H. GUNDAKER. IMPROVED
EMBROIDERY-HOLDER.

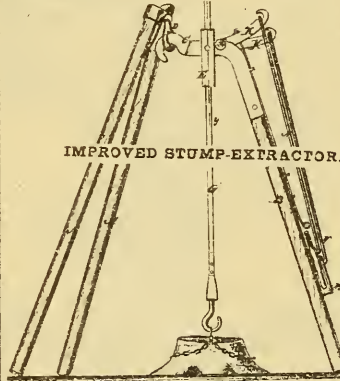
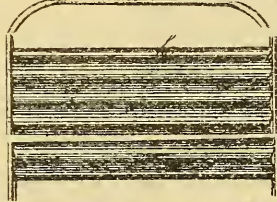
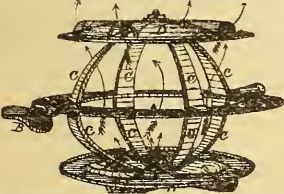
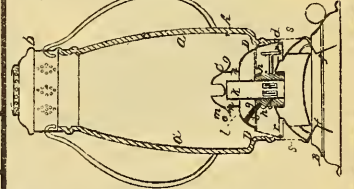
102,542,

EDWARD R. HOLZER
IMPROVED SCAFFOLD.ABEL L. HURTT.
IMPROVED CLOTHES-LINE HOLDER.
102,548,102,537, WILLIAM N. HACKLEY
SELF-ACTING MULE FOR SPINNING.DR. LOUIS HOMRICHHOUSE.
102,543.

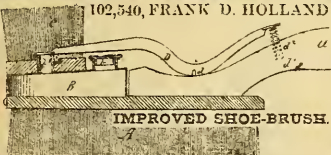
CULTIVATOR-FLOWS.

C. A. JACKSON. TOBACCO-ROLLER
102,549,JABEZ JENKINS. IMPROVED PROCESS
102,550, FOR TEMPERING STEEL.102,538, D. FRANK HALE.
REVERSIBLE BUTT-HINGES.GEORGE L. HOWLAND. 102,544.
WILLIAM M. HOWLAND.

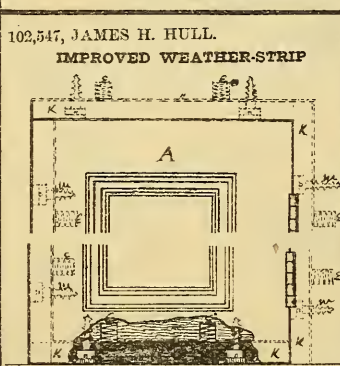
IMPROVED STUMP-EXTRACTOR.

102,545. S. HUBBELL, JR.
WASH BOARD.102,539, R. M. HERMANC.
STOVE-PIPE DAMPER.JOSEPH M. JENNESS. LANTERNS.
102,551,

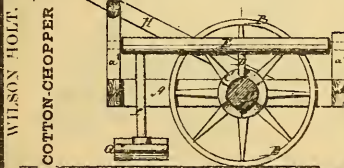
102,540, FRANK D. HOLLAND



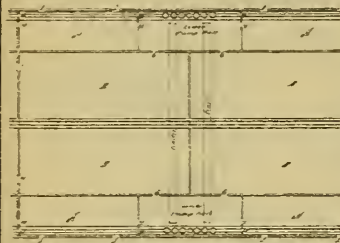
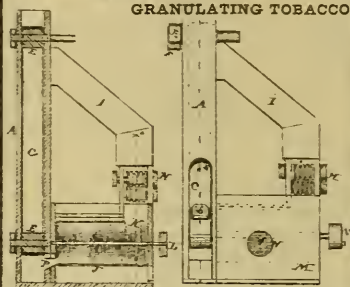
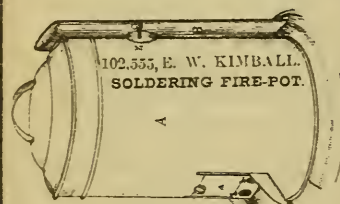
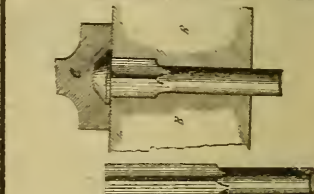
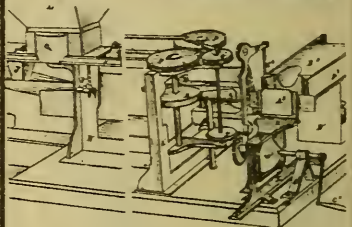
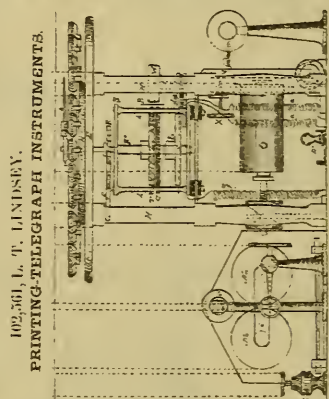
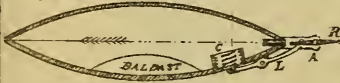
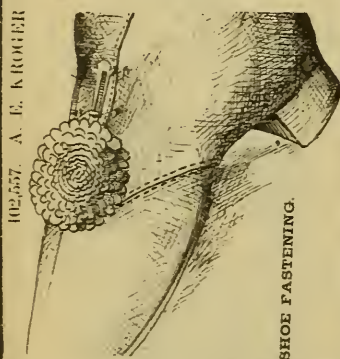
IMPROVED SHOE-BRUSH.

102,546, CHAS. WAGER HULL.
MANUFACTURE OF SOAP102,547, JAMES H. HULL.
IMPROVED WEATHER-STRIP102,552, JAS. H. JOHNSON.
LAMP-BURNERS102,553, LUTHER A. JOHNSON.
CAUL FOR LAYING VENEERS.

102,541,

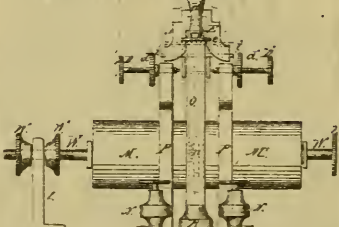
WILSON HOLT.
COTTON CHOPPER

102,554, WILLIAM JONES. DRY-DOCKS.

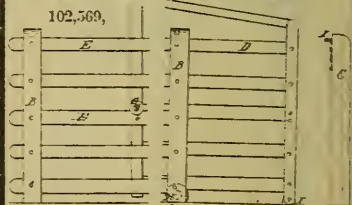
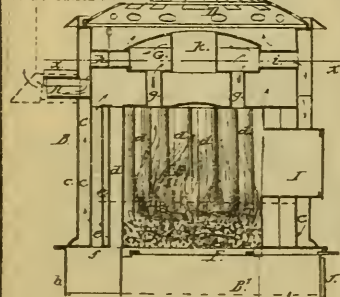
102,560 CHRISTIAN H. LILIENHAL
MACHINE FOR
GRANULATING TOBACCO.102,565, PATRICK MAGUIRE.
IMPROVED COMPOSITION
FOR FINISHING WAX-LEATHER.102,566, ALEXANDER MAILER.
MANUFACTURE OF BOLTS.102,553, E. W. KIMBALL.
SOLDERING FIRE-POT.102,567, MORITZ MARCUS. IMPROVED
STREET-MOISTENING COMPOUND.102,568, JOSEPH W. MAXWELL.
MACHINE FOR FOLDING POWDERS.102,556, W. R. KING.
SUBMARINE TORPEDOES.102,561, L. T. LINDSEY.
PRINTING-TELEGRAPH INSTRUMENTS.

102,557, A. E. KROGER

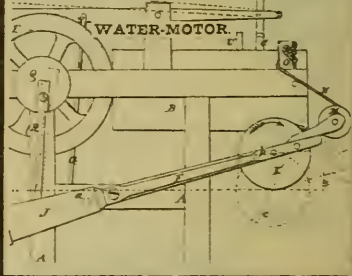
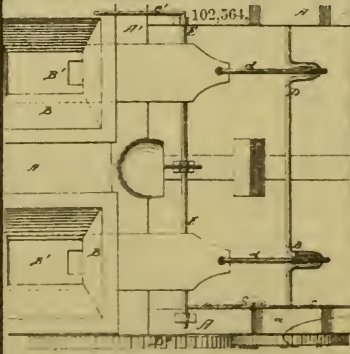
SHOE FASTENING.

102,562, L. T. LINDSEY.
ELECTRO-MAGNETIC
MOTORS.

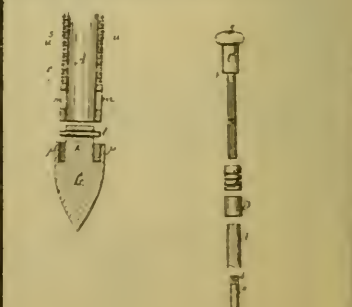
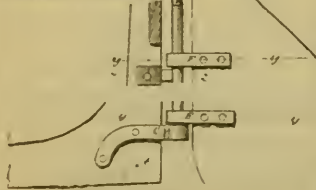
JOHN MAYBEN. FARM-GATES.

JOEL LAForge. 102,558, COAL-STOVE.
J. T. CRANE.GEORGE LUTZ.
DANFORTH H. ROYCE.
MICHAEL TREXOR.
ROBT. CHADWICK.102,563, IMPROVED
POLICEMAN'S NIPPERS.102,570, JOHN MCGILL.
IMPROVED COMPOUND FOR
DRESSING TEXTILE FABRICS

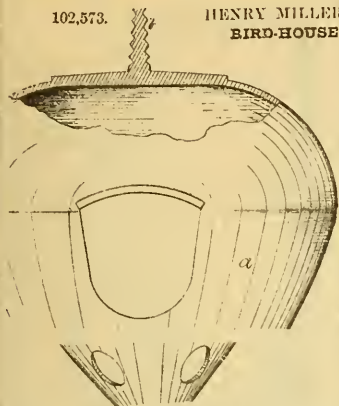
WILLIAM MCGINNISS. 102,571.

JAMES W. MAGERS.
CORN-PLANTER

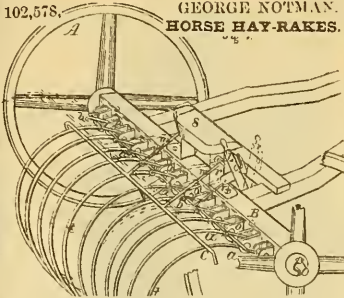
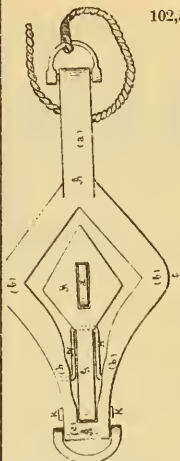
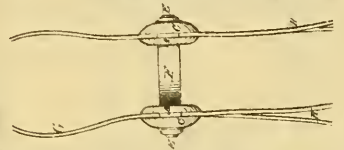
102,572, JAMES MCMILLAN. TUBE-WELLS

102,559,
W. C. LAW.
BOATS RUDDERS.

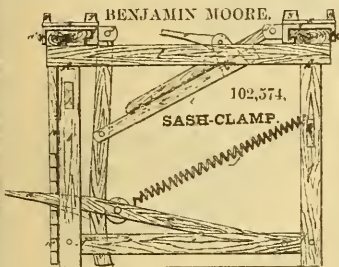
102,573.

HENRY MILLER.
BIRD-HOUSE.

102,578.

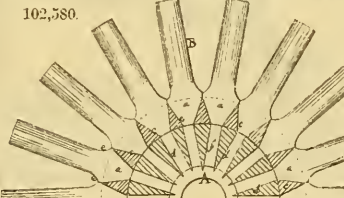
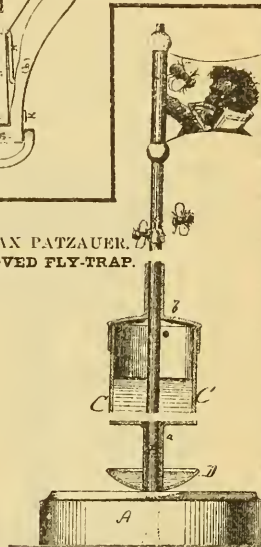
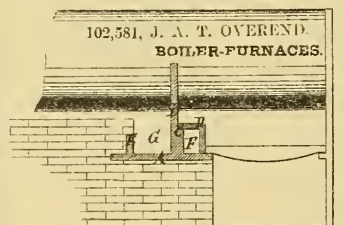
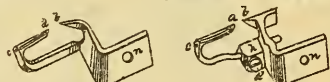
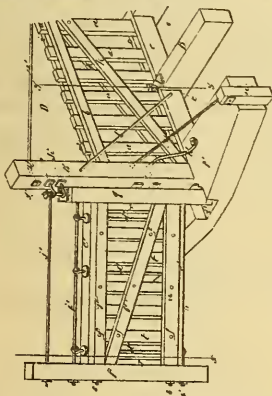
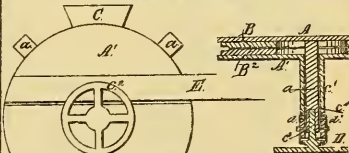
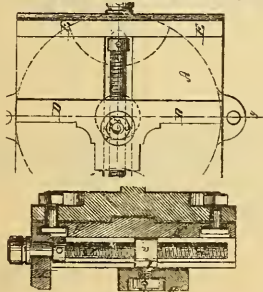
GEORGE NOTMAN.
HORSE HAY-RAKES.102,584, G. C. PATTISON.
ANCHORS.102,579, JAMES O. BRIEN.
ROSETTES FOR BRIDLES.

BENJAMIN MOORE.

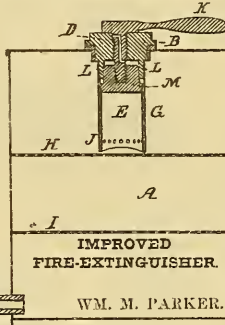
102,574.
SASH-CLAMP.

JAMES O'CONNOR. CARRIAGE-HUBS.

102,580.

102,585 MAX PATZAUER, OR
IMPROVED FLY-TRAP.102,575, CHARLES C. MOORE.
IMPROVED CORD-CATCH.102,581, J. A. T. OVEREND.
BOILER-FURNACES.102,586, RUFUS H. PEABODY.
SEWING-MACHINE.102,576, ENOCH MUIRHEAD.
IMPROVEMENT IN FENCE AND GATE.102,587. O. PEARL.
BOBBIN FOR SPINNING, &c.102,588, WALTER PECK.
IMPROVED GRINDING-MILL.102,577, AUGUSTUS NEWELL.
WILLIAM PIM.
IMPROVED PLANING-CHUCK.

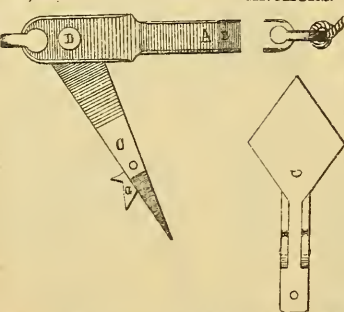
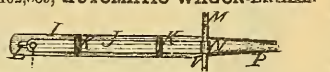
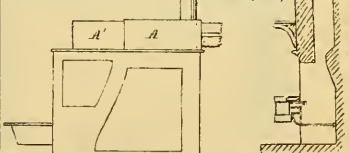
102,589

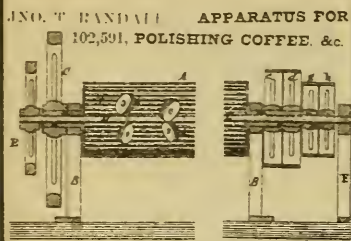
IMPROVED
FIRE-EXTINGUISHER.

WM. M. PARKER.

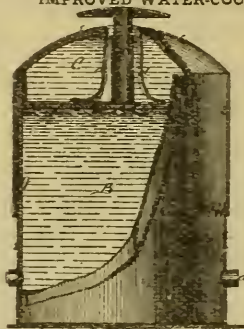
102,583, G. C. PATTISON.

ANCHORS.

FRANK M. PICKERILL. IMPROVED
102,589, AUTOMATIC WAGON-BRAKE.HEATING AND VENTILATING
ATTACHMENT FOR STOVES AND
FIRE-PLACES.
EMILY S. POTTER.
BETSEY R. POTTER.
102,590,



102,595, JOHN BUTTER. IMPROVED WATER-COOLER.



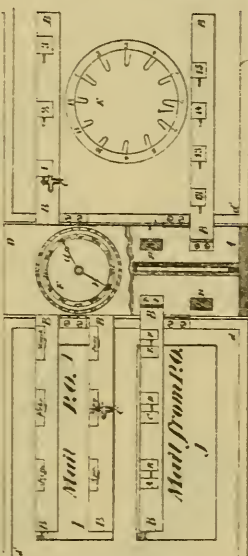
102,599, ISAAC S. SHEETS. DITCHING-PLOWS.



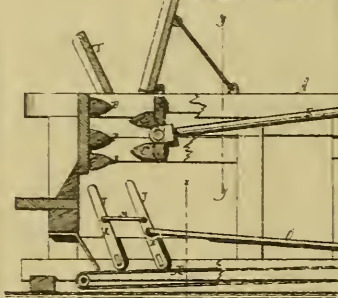
102,600, EDWIN R. SHEPARD. LOCK-NUT.



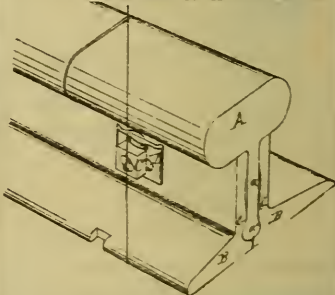
102,592, HENRY BENTCHER. OFFICE-REGISTER AND DIRECTORY.



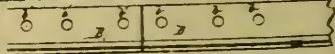
102,596, GEORGE RYMEL. HEMP-BRAKES.



102,601, EDWIN R. SHEPARD. IMPROVED RAILWAY RAIL.



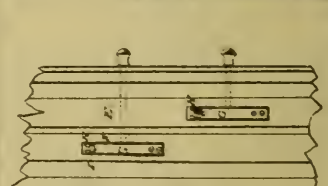
102,602, EDWIN R. SHEPARD. IMPROVED COMPOUND RAILWAY-RAIL.



102,603, SYLVANDER C. SHEPARD. IMPROVED BOB-SLED.



102,604, R. L. SIRRET, M. D. IMPROVED SASH-HOLDER.



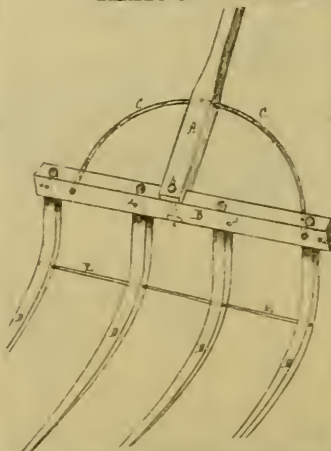
102,605, JACOB W. SLAUGHT. JACOB W. ANDROVATT. CLAMP FOR SETTING RIGGING.

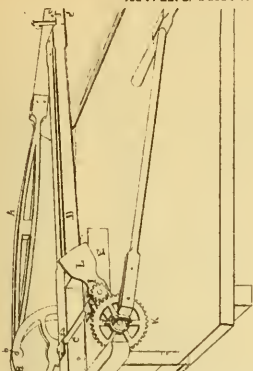
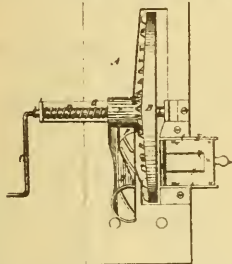
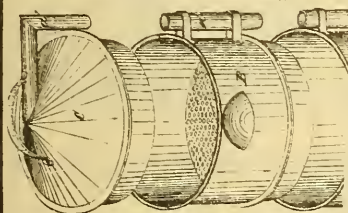
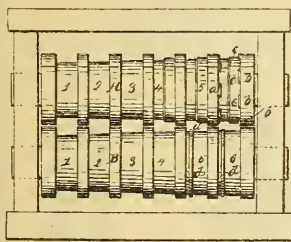
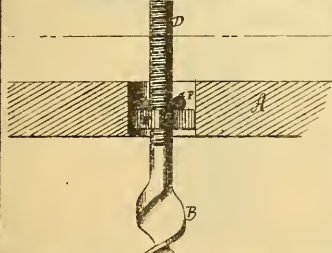
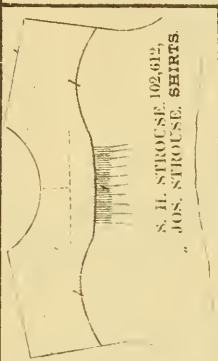
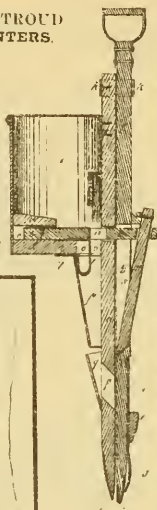
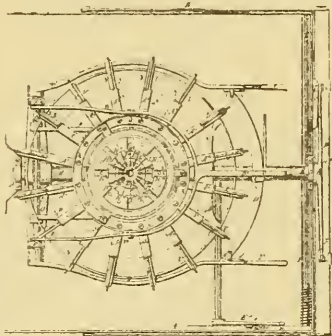
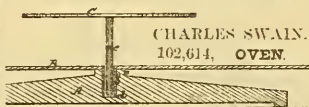
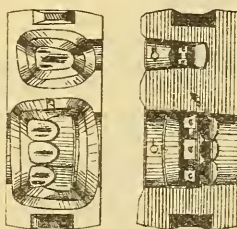
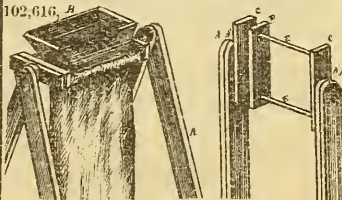


102,594, CHARLES ROBINSON. BALL TOY GUN.



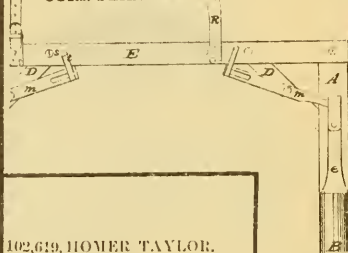
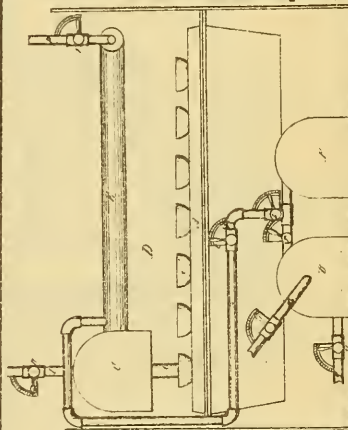
102,598, DENNIS P. SHARP. BARLEY OR GAVEL-FORKS.



102,606, ADDISON SMITH.
SAWING-MACHINES102,607, J. P. SMITH.
COMBINED CORN-SHELLER
AND VEGETABLE-SLICER102,608, JOHN CORBETT SMITH
CULINARY VESSEL102,609, GEORGE A. SPRINGER.
IMPROVED ROLL FOR MAKING RAILS
FOR STREET RAILWAYS102,610, THOS. ST. JOHN.
ROCK-BORING APPARATUS102,611, WILLIAM D. STROUD
HAND CORN-PLANTERS.102,613, JACOB STREER'S HAT-BLOCKING
W. H. BEHRENS. MACHINES.CHARLES SWAIN.
102,614, OVEN.102,615, ELI SWEET.
MOLD FOR ARTIFICIAL TEETHGEORGE D. SWEIGERT. BAG-HOLDERS.
102,616, A

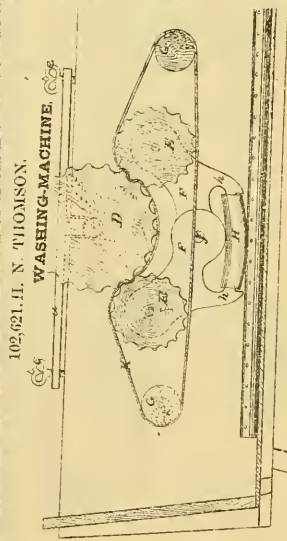
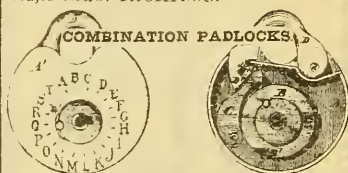
102,617, OWEN W. TAFT.

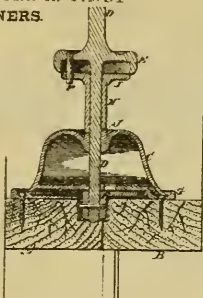
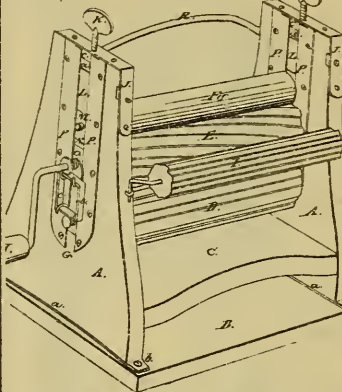
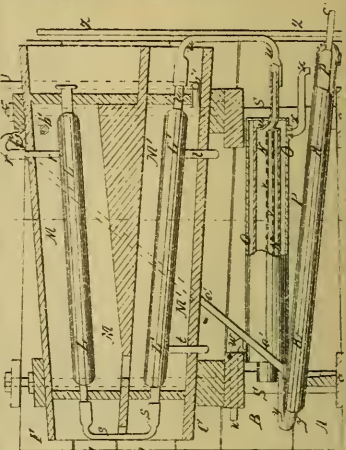
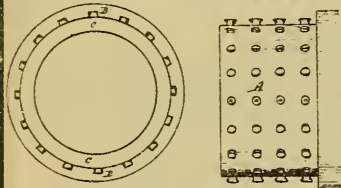
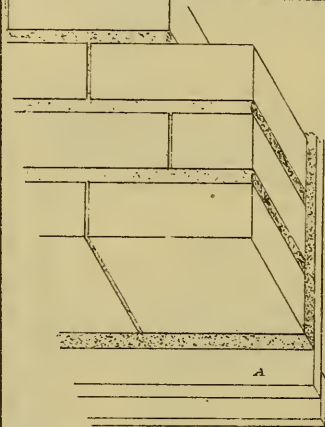
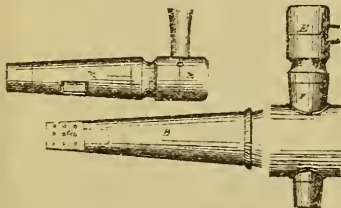
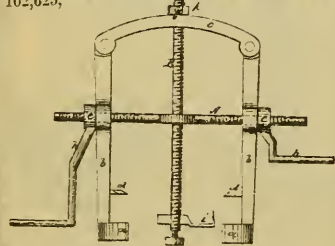
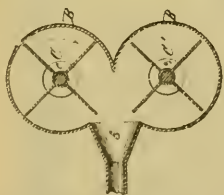
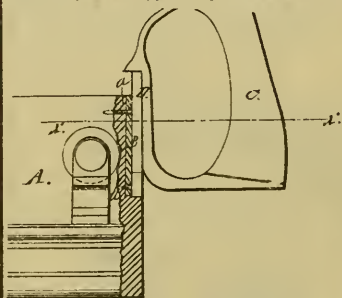
CARVING-KNIVES

102,618, LEVI B. TARBOX.
CORN-PLANTERS102,619, HOMER TAYLOR.
APPARATUS
FOR THE COMBUSTION
OF PETROLEUM AND OTHER
HYDROCARBON LIQUIDS.

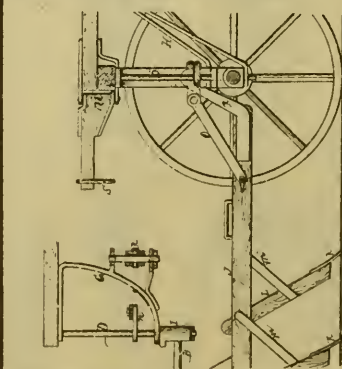
102,620, GEO. THOMPSON.

COMBINATION PADLOCKS

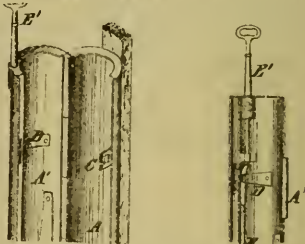
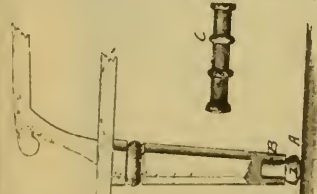
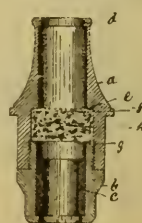


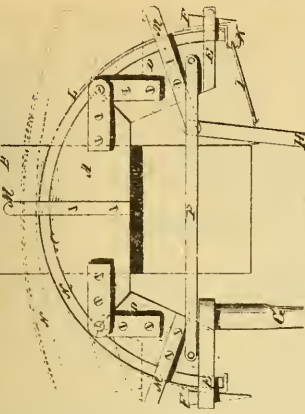
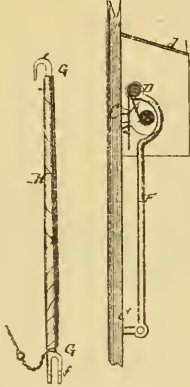
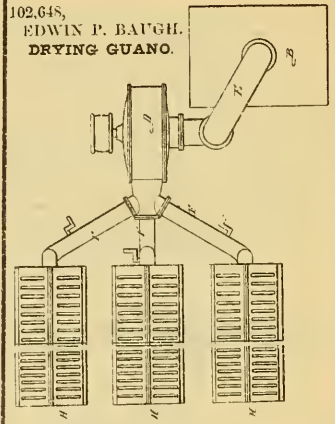
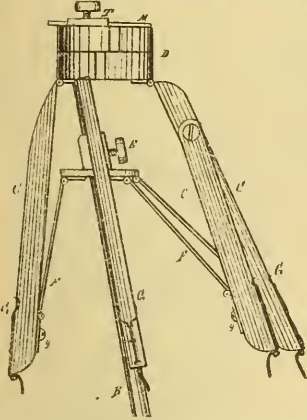
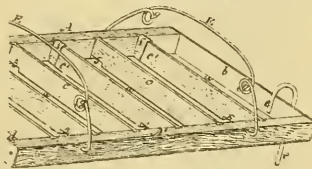
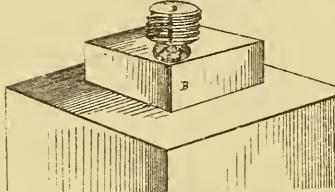
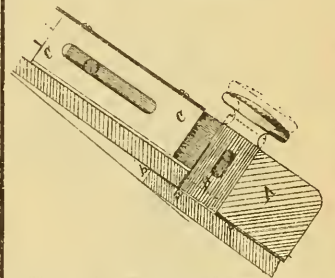
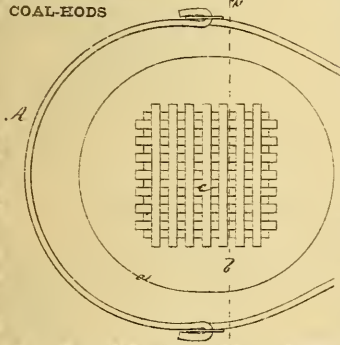
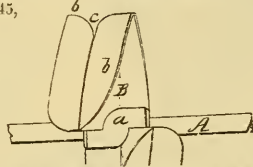
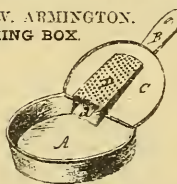
102,622, THEODORE R. TIMBY
SASH-FASTENERS.JOSEPH B. WAKEMAN
ALFONZO R. FIELD.
WASHING AND WRINGING-MACHINE.
102,628,102,632, JOHN M. WEYAND.
APPARATUS FOR DISTILLING.102,623, GEORGE H. TITCOMB.
JNO. P. CULVER.
DRAIN AND WATER-PIPE.102,629, C. G. WATERBURY.
STONE PAVEMENT.102,624, WILLIAM H. TRISSLER.
FAUCETS.102,625, ABRAHAM TROUP.
MACHINE FOR BORING HUBS.102,626, JOHN GEORGE TSCHULIN.
BLOWERS FOR BLACKSMITHS' FORGES.102,630, C. H. WEIGLE. ATTACHING
HANDLES TO JOINER'S PLOWS.

102,631, N. WERTS. CULTIVATOR.

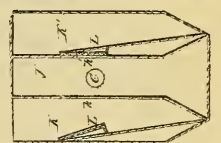
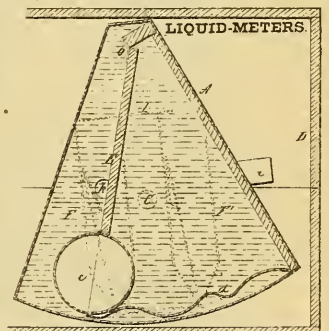
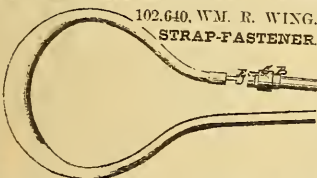


102,634, J. T. WHIPPLE PUMP.

102,635, JOHN W. WHITEMAN.
SAFETY-SOCKET FOR WHIPS.
UMBRELLAS, BILLIARD-CUES, &c.102,627, SILAS VAN PATTEN.
ELASTIC TIP FOR LEGS OF CHAIRS, &c.102,636, NARUM C. WILDER.
WATER-COCK FILTER.

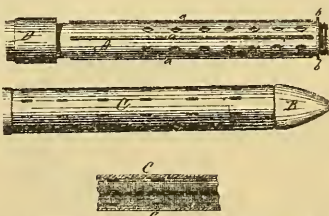
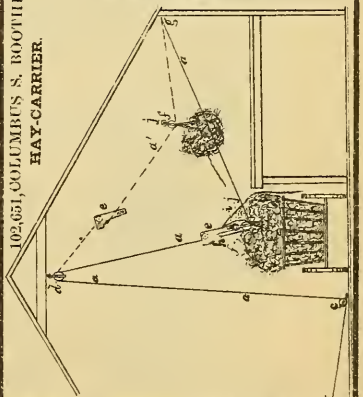
102,637, W. D. WILLIAMS.
MACHINE FOR BENDING WOOD.102,642, LOUIS YENNE.
ADJUSTABLE AWNING-FRAME.102,648,
EDWIN P. BAUGH.
DRYING GUANO.102,638, C. C. WILSON.
FORMER FOR HOOP-SKIRTS.102,643, ALANSON YOUNG.
EVAPORATING APPARATUS.102,644, THEODORE B. YOUNG.
SUBSTITUTE FOR JAM-NUTS.102,649, J. S. BIDDLECOM.
CLAPBOARD-GAUGE.102,639, WILLIAM WILSON.
COAL-HODSCHS. ARLEN.
CHS. GAUTSCHI. SCREW-PROPELLERS
102,645,102,646, WILLIAM W. ARMINGTON.
STOVE-BLACKING BOX.

102,650, NATH. L. BLANCHARD.

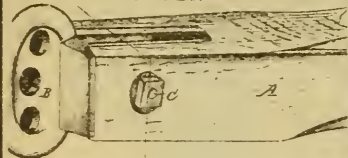
102,640, WM. R. WING.
STRAP-FASTENER.102,641, HENRY WINTER.
BENDING-MACHINE

102,647, I. AYRES AND D. C. PAYNE.

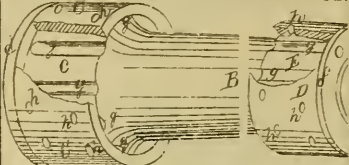
WELL TUBE.

102,651, COLUMBUS S. BOOTHBY.
HAY-CARRIER.

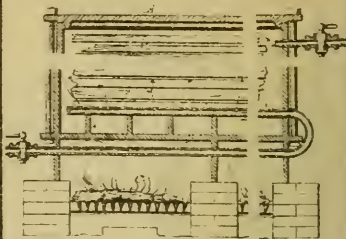
102,652, T. E. C. BRINLY. PLOW-CLEVIS



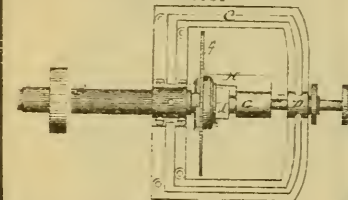
102,657, ALMOND F. COOPER. CARRIAGE-WHEEL HUB.



102,654, JOS. W. DOUGLAS. PUMP-VALVES.



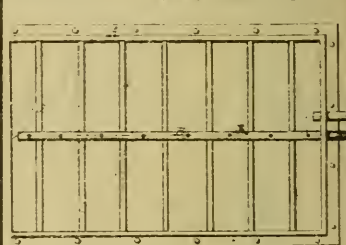
102,653, HENRY BROOMELL. SAW.



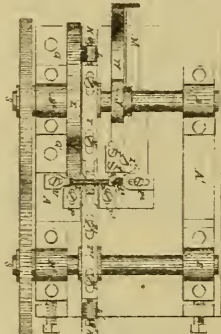
102,658, WM. DAMEREL. SASH-BALANCES.



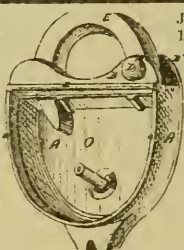
102,665, RICHARD A. DOUGLAS. SEASONING WOOD



102,659, JOHN T. DARNELL. STAPLE-MACHINE.

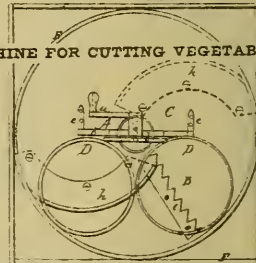


102,660, THOMAS HALE DAVIS. COMPOSITION FOR AND MODE OF ORNAMETING WOOD.

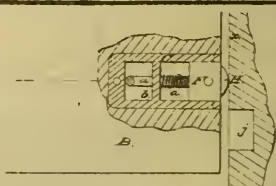
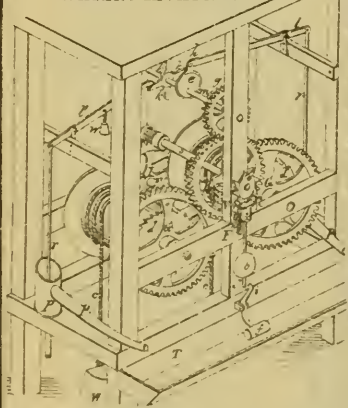


JAMES M. A. DEW. 102,661, PADLOCKS.

102,666, WILLIAM R. DUNN. MACHINE FOR CUTTING VEGETABLES

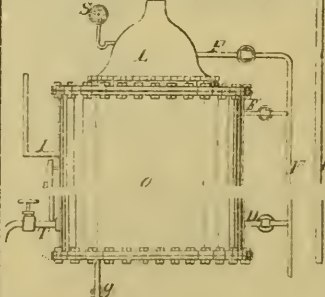


102,655, GEO. C. CANFIELD. WATER-ELEVATORS.

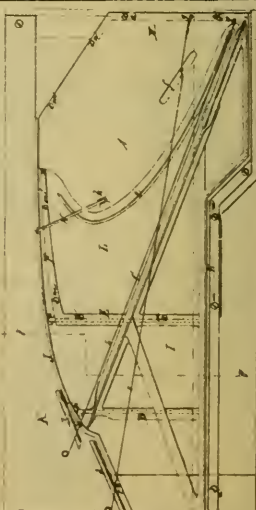


102,667, WM. A. EISENHOWER. SASH-HOLDER.

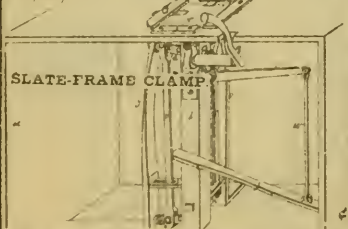
102,662, T. S. DICKERSON AND R. M. WHIPPLE. PROCESS AND APPARATUS FOR USING LIQUID FUEL FOR PRODUCING HEAT AND LIGHT.



102,668, GEORGE ELY. PIANO-FORTES.

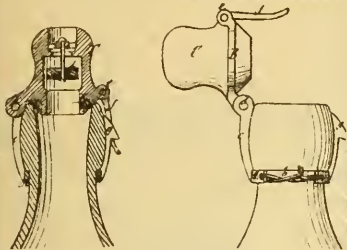


102,656, JAMES H. COFFIN.

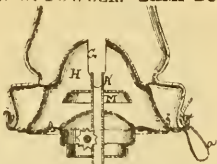
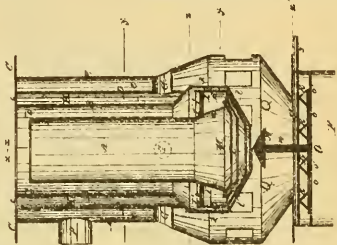
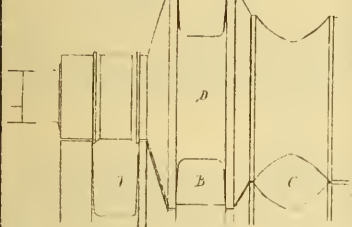
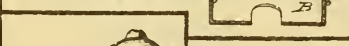
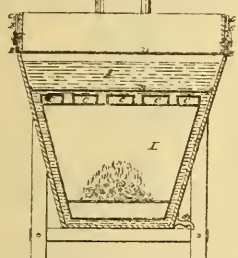
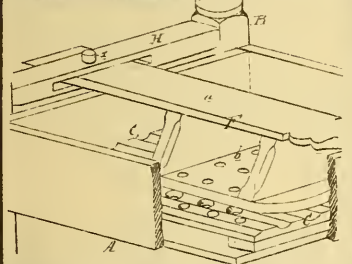


JONATHAN DILLEN. 102,663.

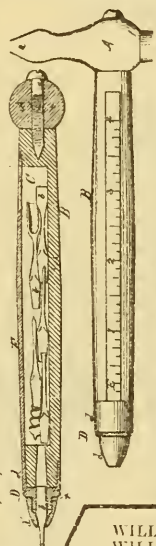
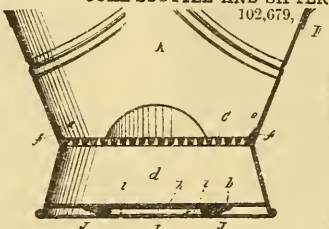
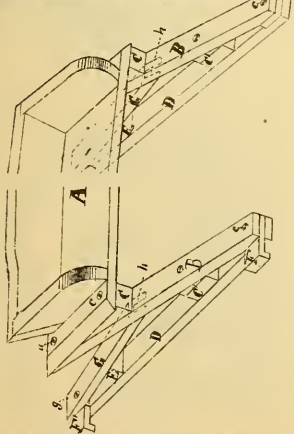
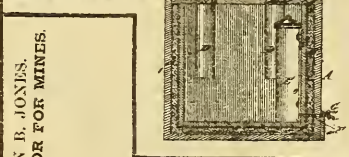
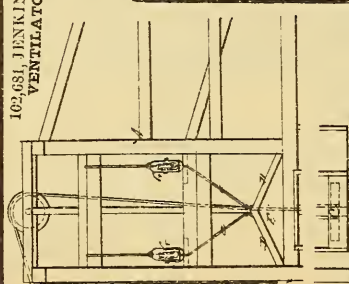
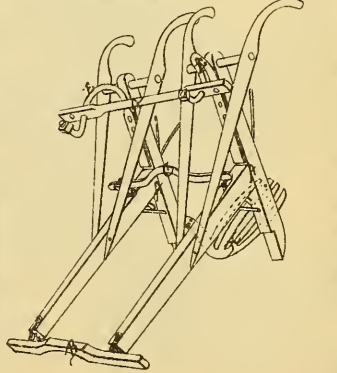


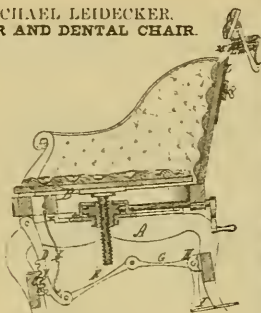
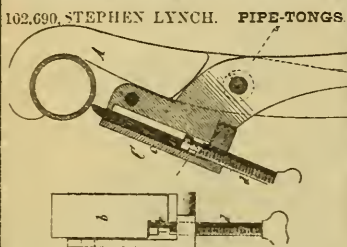
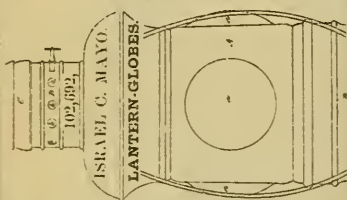
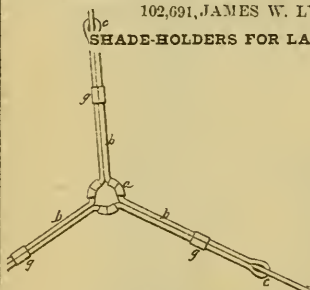
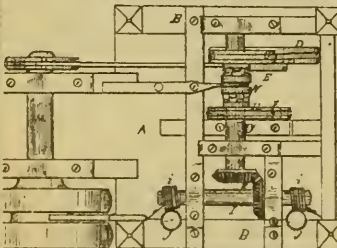
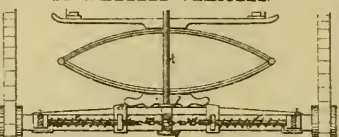
102,669, WILLIAM ELY.
BOTTLE-STOPPERS.

102,674, S. W. FOWLER. LAMP-BURNERS.

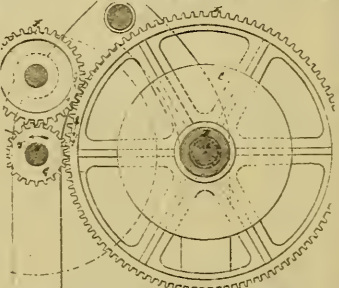
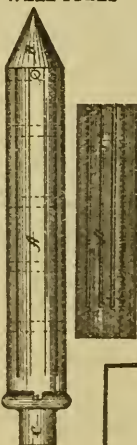
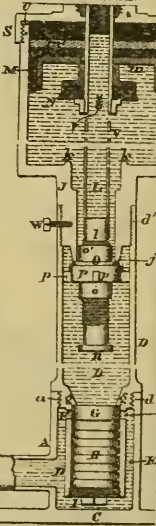
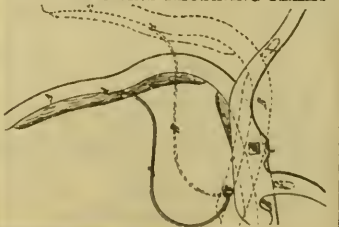
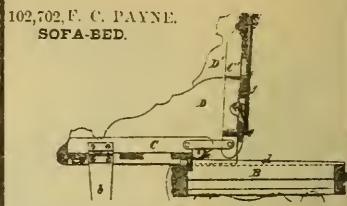
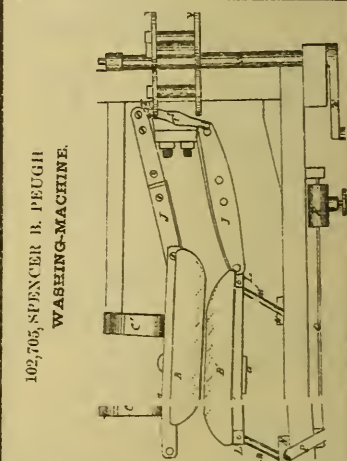
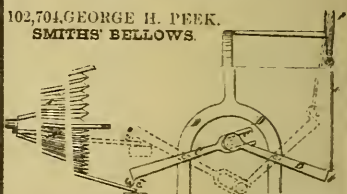
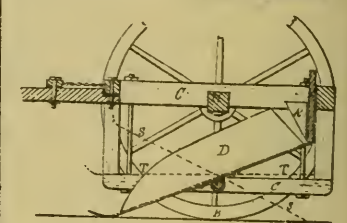
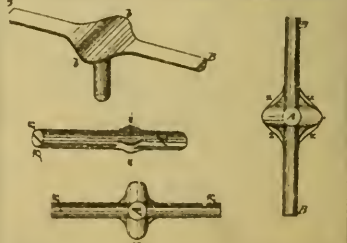
102,675, RICHARD J. GATLING.
METALLIC CARTRIDGES.102,682, WILLIAM J. KEEP.
BASE-BURNING STOVE.DAVID EYXON.
102,670, ROUGHING-ROLL.GEORGE GEER.
102,676, MATCH-SAFE.102,671, FRANCIS FARQUHAR.
AGRICULTURAL BOILER.102,672, BENJAMIN F. FELLMAN.
WASHING-MACHINE.

102,677, BRO. W. GREGORY. COMBINATION-TOOL.

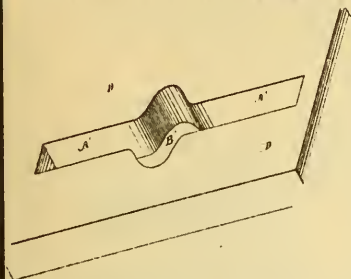
WILLIAM HAZLET.
WILLIAM H. FLANIGAN.
COAL-SCUTTLE AND SIFTER.
102,679.102,673, H. E. FOSTER.
SPRING-SEAT FOR WAGONS.102,680, WILLIAM G. HOLDEN, JR.
REFRIGERATOR102,681, JENKIN B. JONES.
VENTILATOR FOR MINES.102,684, HERMANN KOELLER.
SEEDING-MACHINES.DR. WM. LANDERT. COMPOUNDS FOR
DR. JOHN DEGGELLER.
102,686, TREATING RHEUMATISM102,687, WILLIAM M. LANHAM.
PLOW.

102,688, MICHAEL LEIDECKER.
BARBER AND DENTAL CHAIR.102,689, ORAZIO LUGO. MANUFACTURE
OF FERTILIZERS AND OIL FROM FISH.102,691, JAMES W. LYON.
SHADE-HOLDERS FOR LAMPS.102,693, JAMES McDERMOTT. MACHINE
FOR SPLITTING GRINDSTONES.102,694, ALEDO McKENNEY.
SHOE-FASTENERS.102,695, JAMES McMILLIN.
ATTACHMENT OF POLE OR SHAFTS
TO WHEELED VEHICLES.

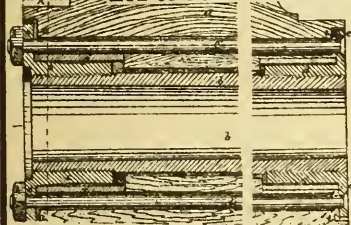
102,696, DAVID A. McNAIR. SEAL-LOCKS.

102,697, A. W. MORTON.
TRANSMITTING POWER.102,699, SIMON NEFF.
WELL-TUBES.102,698, JOHN MYERS.
HYDRANTS.G. M. NICKASON.
SASH-MARKERS.102,701, THEODORE J. PALMER.
ROCKING AND RECLINING-CHAIR.102,702, F. C. PAYNE.
SOFA-BED.102,703, HART F. PEASE.
PISTON CONNECTIONS.102,704, GEORGE H. PEEK.
SMITHS' BELLOWS.102,705, SPENCER B. PEUGH.
WASHING-MACHINE.102,706, JAMES PRESTON.
GRADING-MACHINE.102,707, F. B. PEINDLE.
DIES FOR FORMING KING-BOLTS.

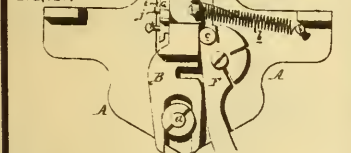
102,708. FRANKLIN B. PRINDLE.
DIES FOR TRIMMING KING-BOLTS



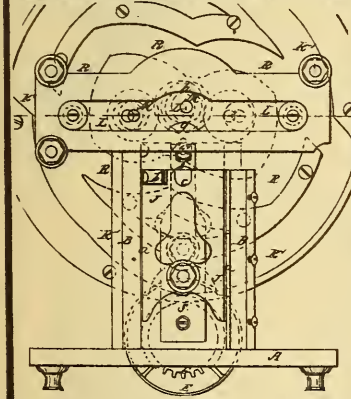
102,709. J. RADDIN.
HUB OF ROAD CARRIAGES.



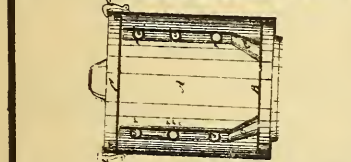
GEORGE REHFUSS, SEWING-MACHINE.
102,710.



102,711. HENRY REYNOLDS.
MACHINE FOR MAKING CHAIN-LINKS



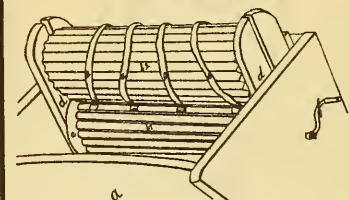
102,712. JACOB RINGLE.
WASH-BOILER APPARATUS.



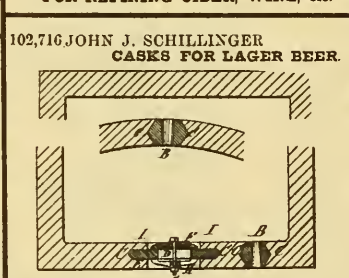
CHAS. H. ROBERTS. SCHOOL DESK.
102,713.



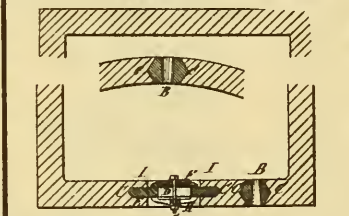
102,714. W. T. C. RUNNELLS.
WASHING-MACHINE.



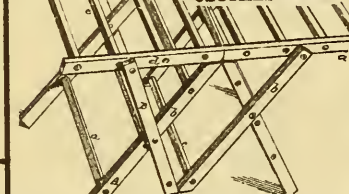
102,715. OLIVER SCHAFFER. COMPOUND
FOR REFINING CIDER, WINE, &c.



102,716. JOHN J. SCHILLINGER.
CASES FOR LAGER BEER.



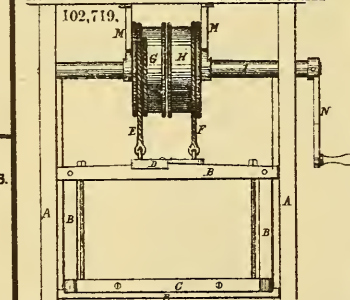
102,717. HENRY SCHRYVER.
CLOTHES-DRIER.



102,718. ANDREW B. SEARLES.
TEA AND COFFEE-STRAINERS.



HENRY F. SHAW. HOISTING-GEAR.

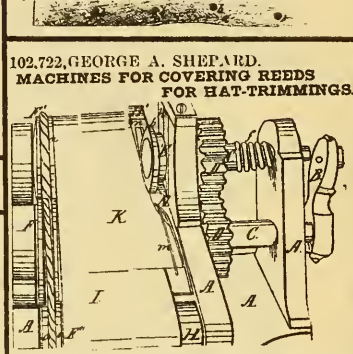


102,720. GEORGE V. SHEFFIELD.
HEEL-STIFFENER
FOR BOOTS AND SHOES.

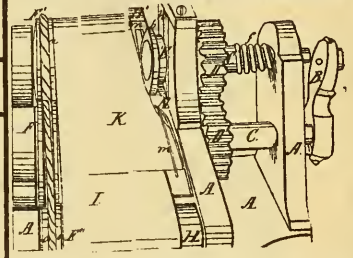


102,721. GEORGE V. SHEFFIELD.

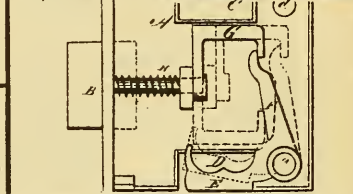
SHANK-PIECE
FOR BOOTS AND SHOES.



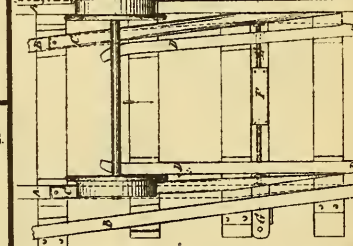
102,722. GEORGE A. SHEPARD.
MACHINES FOR COVERING REEDS
FOR HAT-TRIMMINGS.



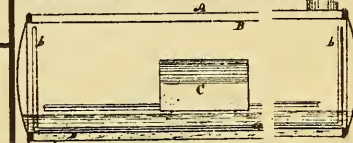
WILLIAM E. SPARKS.
REVERSIBLE-LATCHES.



W. H. STAATS. RAILWAY-SWITCHES
102,724.



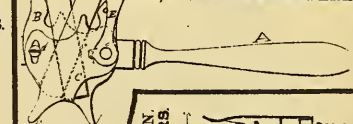
102,723. FRANCIS A. STEVENS.
APPARATUS FOR PRESERVING WOOD.



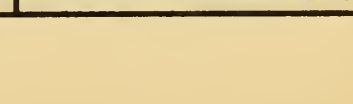
DAVID L. STILES. HEATING-STOVE
102,726.



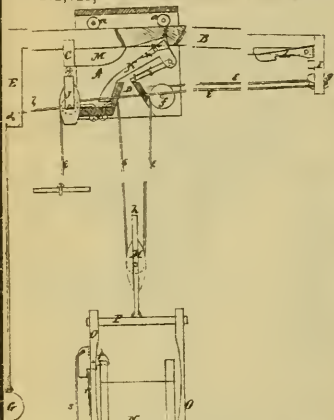
SEPTIMUS C. STOKES.
102,727. KNIFE-SHARPENER.



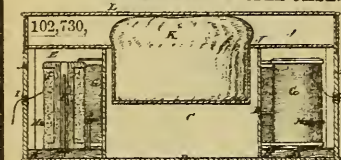
102,728.
ALVIN TAPLIN.
LAMP-BURNERS.



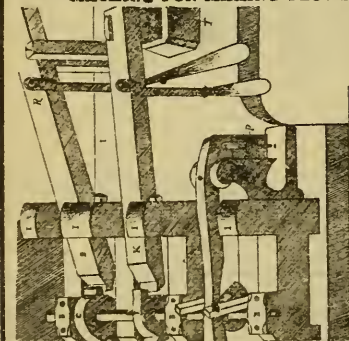
ABRAHAM THOMAS.
GEORGE D. THOMAS.
102,729, HAY AND LIME ELEVATORS.



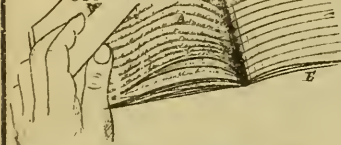
THEODORE R. TIMBY. COMBINED
THREAD AND NEEDLE-CASES.



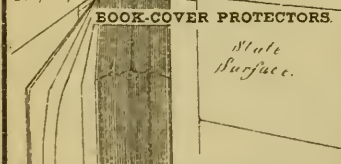
102,731, JAMES URIE.
MACHINE FOR MAKING FLOWS.



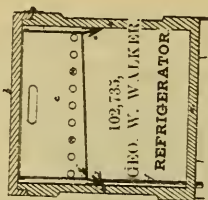
102,732, PHILIP F. VAN EVEREN.
COPY-BOOKS.



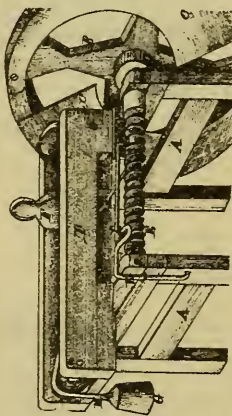
PHILIP F. VAN EVEREN
102,733, BOOK-COVER PROTECTORS.



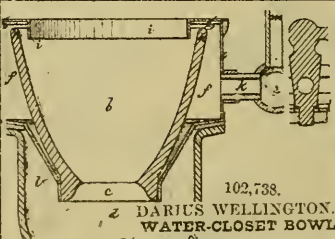
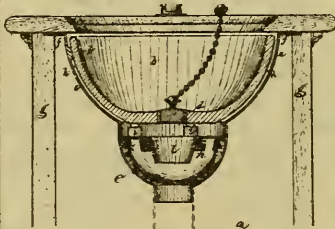
102,734, L. B. VAN KHECK.
HAND STAMP-CANCELERS.



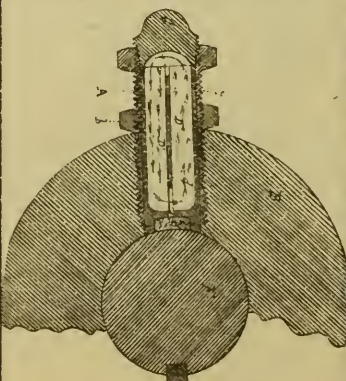
102,736, COLUMBUS M. WEATHERS.
STRAW-CUTTERS.



102,737, DARIUS WELLINGTON.
LAVATORY APPARATUS

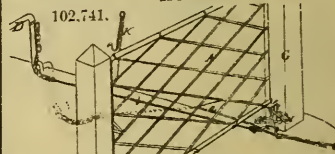


ISAAC P. WENDELL.
STEPHEN P. M. TASKER. 102,739,
LUBRICATOR FOR LOOSE PULLEYS.

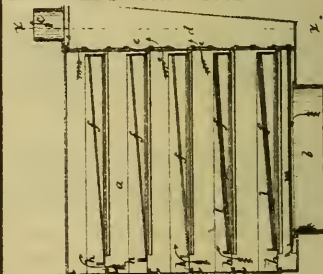


102,740, JAMES D. WHEPLEY.
JACOB J. STORER.
MANUFACTURE OF WROUGHT IRON
FROM ORE, CINDER, OR SLAG.

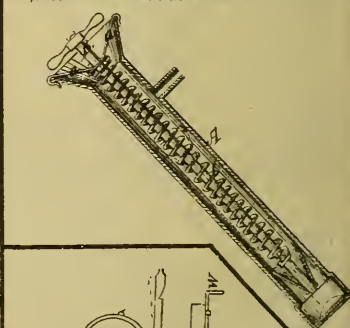
SAMUEL WHITAKER.
AUTOMATIC GATE.



102,742, G. W. WHITE AND
L. F. WENTWORTH. DRIER.



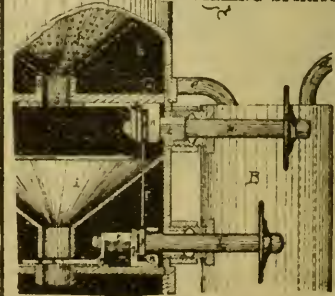
102,743, F. C. WILSON. PUMPS.



102,744, GEORGE A. WING.
HAYRAKE AND LOADER.

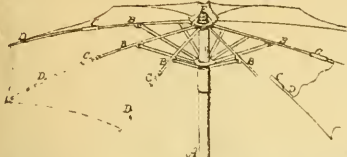


102,745, F. M. YOUNG. APPARATUS FOR
DISTILLING SPIRITS



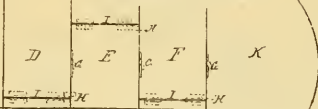
102,746, SOLOMON W. YOUNG.

UMBRELLAS.



3,949, CHARLES PHILIPP LENZ

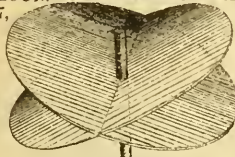
EXTENSION-TABLE.



A. C. LOUD.

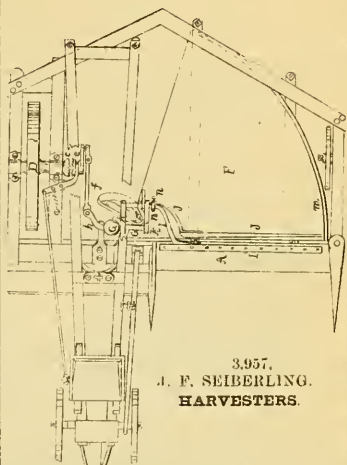
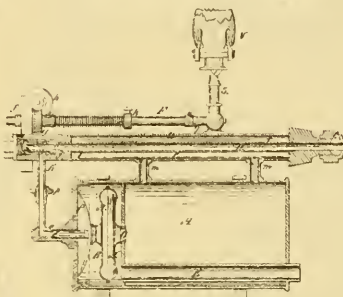
PROPELLING-WHEELS.

102,747.



3,950, HIRAM S. MAXIM.

STEAM GAS-GENERATORS.



3,957.

J. F. SEIBERLING.
HARVESTERS.

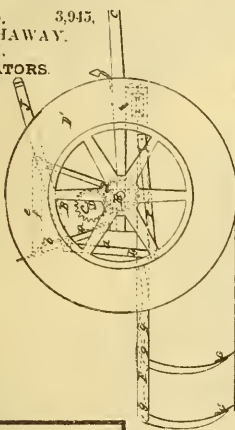
A. R. BLOOD.

3,945.

ALEX. HATHAWAY.

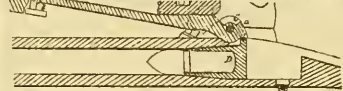
V. R. BEACH.

CULTIVATORS.



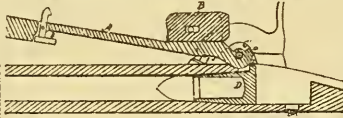
3,951. B. S. ROBERTS.

BREECH-LOADING FIRE ARM.



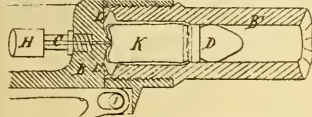
3,952. B. S. ROBERTS.

BREECH-LOADING FIRE-ARMS.



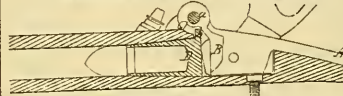
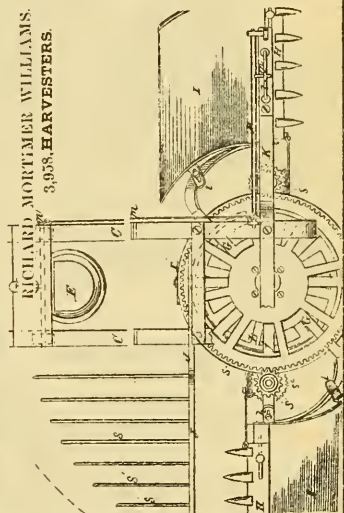
3,946, WILLIAM N. ELY.

BREECH-LOADING FIRE-ARMS.



3,953, B. S. ROBERTS.

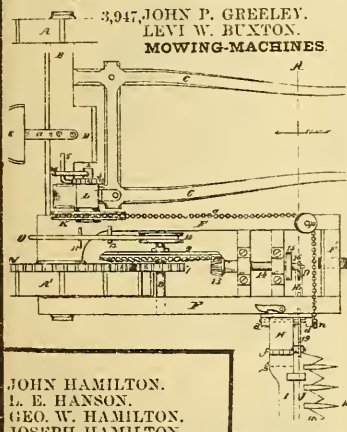
BREECH-LOADING FIRE-ARMS.

RICHARD MORTIMER WILLIAMS.
3,958. HARVESTERS.

3,947, JOHN P. GREELEY.

LEVI W. BUXTON.

MOWING-MACHINES.



JOHN K. SAN.

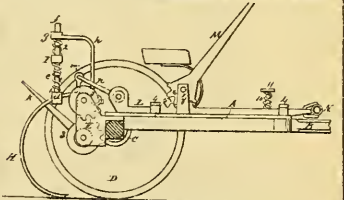
3,954, GEORGE W. KEAR.

RAILWAY CAR-WHEELS.

3,959, JOSEPH WOLFF. MANUFACTURE
OF YEAST FOR DISTILLERS

3,960, ALZIRUS BROWN.

HORSE HAY-RAKES.



JOHN HAMILTON.

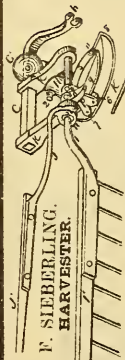
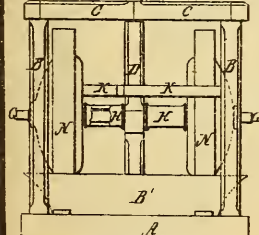
L. E. HANSON.

GEO. W. HAMILTON.

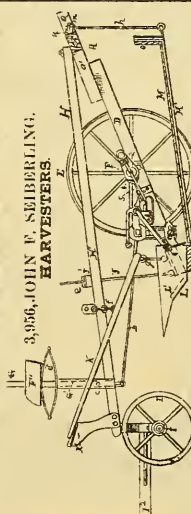
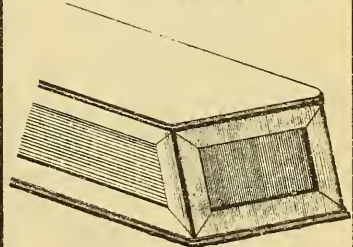
JOSEPH HAMILTON.

3,948.

ORE-CRUSHER.

J. F. SEIBERLING.
HARVESTER.

3,955.

3,956, JOHN F. SEIBERLING.
HARVESTERS.3,961, JOHN JOHNSON. CONSTRUCTION
OF SEWING-MACHINE COVERS

3,962, JOHN L. DUFFEE.

BRONZING AND GILDING.

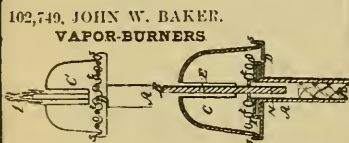
ILLUSTRATIONS OF PATENTS

ISSUED FROM

THE UNITED STATES PATENT OFFICE

MAY 10, 1870.

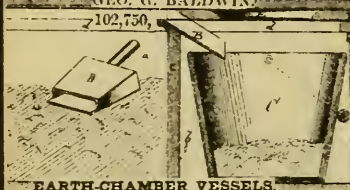
102,748. I. ADAMS, JR.
ELECTRO DEPOSITION OF NICKEL.



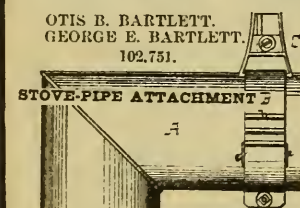
102,749. JOHN W. BAKER.
VAPOR-BURNERS.



GEO. C. BALDWIN.



OTIS B. BARTLETT.
GEORGE E. BARTLETT.
102,751.



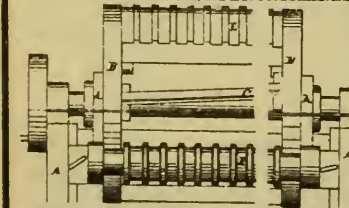
102,752. ELIJAH K. BIGELOW.
PRUNING AND HEDGE-SHEARS.



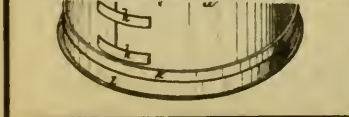
102,753. J. S. BIRCH.
ADJUSTABLE WATCH-KEYS.



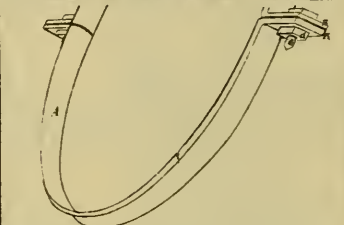
102,754. WILLIAM HENRY BLEASDALE.
CRIMPING-ATTACHMENTS
TO PAPER-MACHINES.



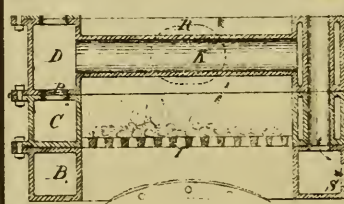
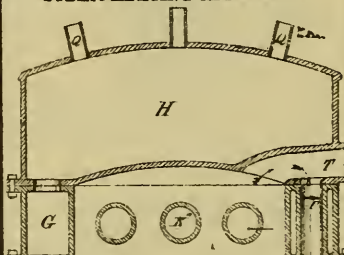
102,755. JOEL BLOOD.
BANDAGING AND BOXING CHEESE.



102,756. T. H. BODY.
COLLAR FOR ATTACHING COW-BELLS.



102,757. ELIJAH M. ROSLEY.
STEAM-HEATING APPARATUS.



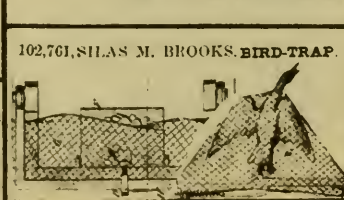
102,758. FRANCIS BOSOM.
CHURN-DASHERS.



102,759. CHARLES BRADWAY.
MOP-WRINGER.



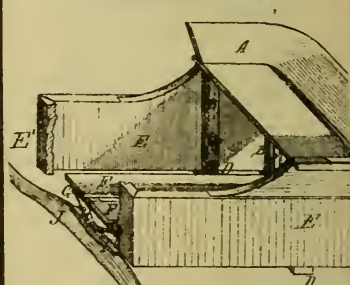
102,760. FREDERICK BRAUN.
AUGUSTUS T. SCHMIDT.
BLEACHING, TANNING,
AND COLORING SPONGES.



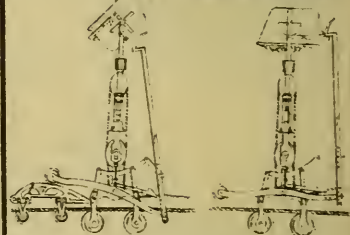
102,761. SILAS M. BROOKS. BIRD-TRAP.



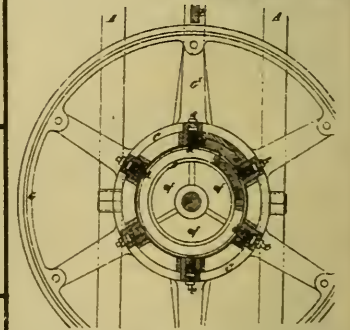
102,762. THOMAS H. BROWN.
BUCK-BOARD SPRINGS.



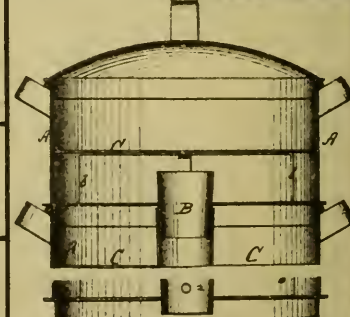
102,763. WM. H. BROWN.
HOISTING-APPARATUS.



102,764. G. A. BUCHHOLZ.
HULLING-MACHINES.

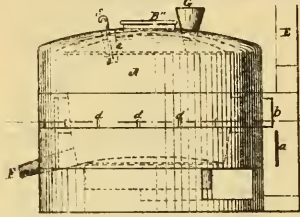
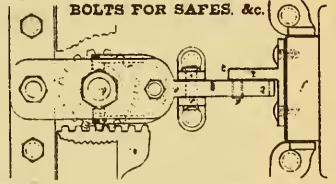
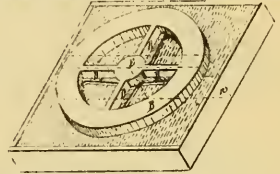


102,765. I. S. BUNNELL.
CULINARY BOILER.



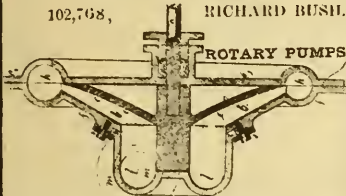
102,766. HUBERT BURGESS.
PENCIL-SHARPENERS.



102,767, M. C. BURLEIGH.
HEATING-STOVES.102,774, DAVID CASHWELL.
DISTILLING TURPENTINE.102,780, GEORGE L. DAMON.
BOLTS FOR SAFES, &c.102,781, R. T. DAVIS.
CHILLS FOR CASTING TOOTHED-GEAR.

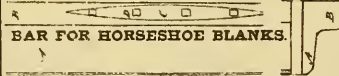
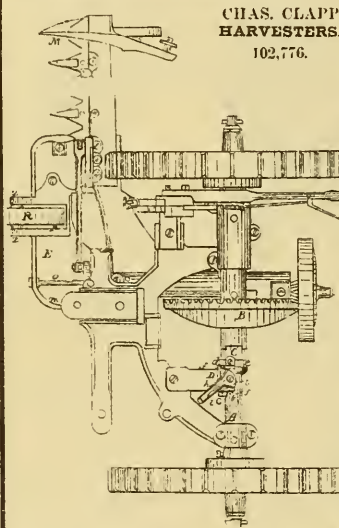
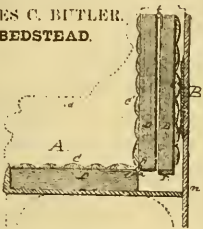
102,768, RICHARD BUSH.

ROTARY PUMPS.

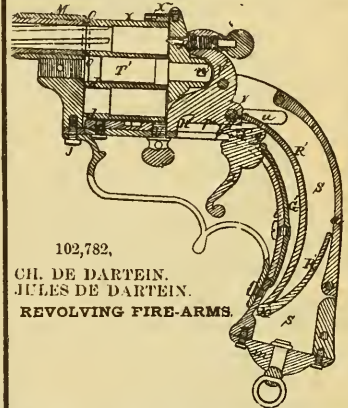


102,775, EBENEZER CATE.

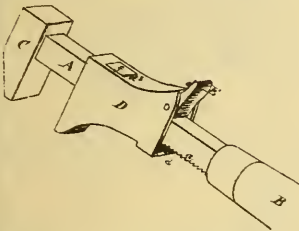
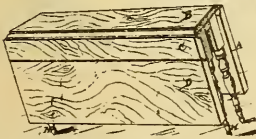
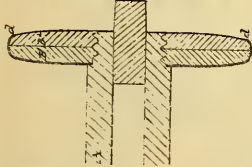
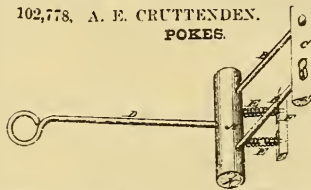
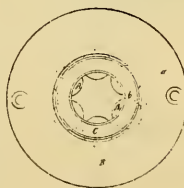
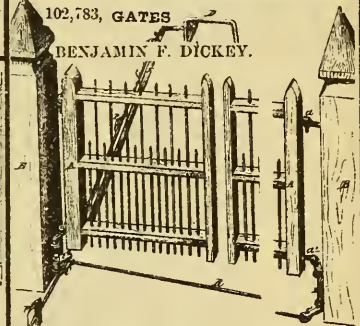
BAR FOR HORSESHOE BLANKS.

CHAS. CLAPP.
HARVESTERS.
102,776.102,769, JAMES C. BUTLER.
SOFA-BEDSTEAD.

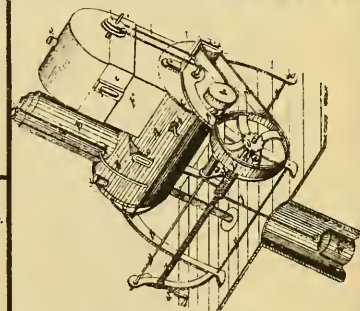
102,782,

CH. DE DARTEIN.
JULES DE DARTEIN.
REVOLVING FIRE-ARMS.

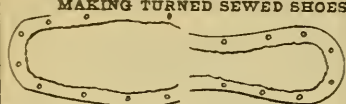
102,770, B. F. BUXTON. WRENCH.

102,771, WALTER CALDWELL.
FALL-LEAF TABLE.ALEXANDER CARMICHEL.
102,772, SPOOLS OR BOBBINS.102,778, A. E. CRUTTENDEN.
POKES.102,779 CHARLES M. DABOLL.
FRICTION-ROLLER BEARING.102,783, GATES
BENJAMIN F. DICKEY.

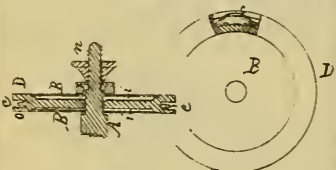
102,784, ELLIS DOTY, GAS-GENERATORS.

102,785, SAMUEL DOUGLASS.
FIRE-TONGS.

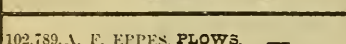
102,786.
WILLM. DUCHEMIN. METHOD OF
MAKING TURNED SEWED SHOES



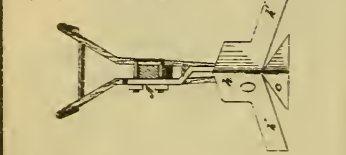
102,787, GEORGE L. DU LANEY.
TENSION-DEVICE FOR THREAD
IN SEWING-MACHINES



102,788, CHARLES J. EAMES.
MEDICAL COMPOUND.



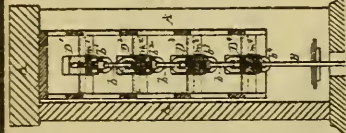
102,789, A. F. EPPES. PLOWS.



102,790, WILLIAM D. EVANS.
RAZOR-STROPS

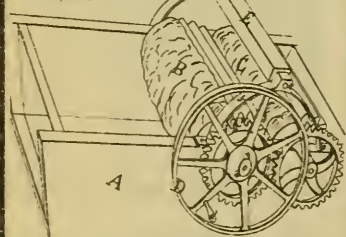


102,791, THADDEUS FAIRBANKS.
WEIGHING-SCALES.



JOHN FARMER. WASHING-MACHINE

102,792,

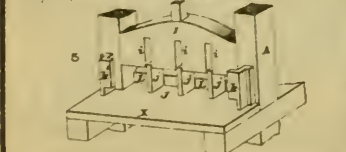


JOHN FARREL. BOLTS FOR SAFES.

102,793,



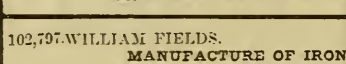
CHARLES W. FERGUSON.
BRICK-MACHINES



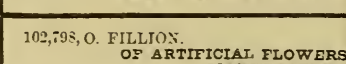
102,793, JAS. W. FIELD.
NEEDLE-SETTERS FOR
SEWING-MACHINES



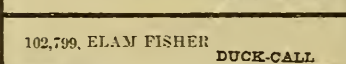
102,796. WILLIAM FIELDS.
MANUFACTURE OF STEEL



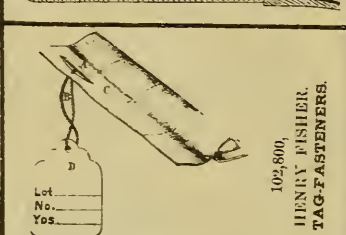
102,797. WILLIAM FIELDS.
MANUFACTURE OF IRON



102,798, O. FILLION.
OF ARTIFICIAL FLOWERS
MANUFACTURE



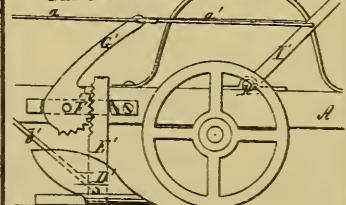
102,799, ELAM FISHER
DUCK-CALL



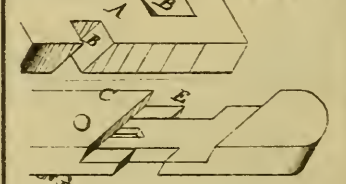
102,800,

HENRY FISHER.
TAG-FASTENERS.

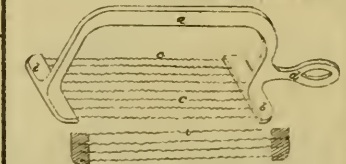
102,801, P. H. FLANSBURGH.
GANG-PLOW.



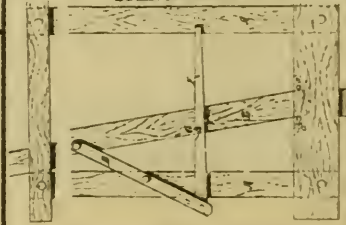
102,802, HENRY GABELMANN.
BENCH-PINS



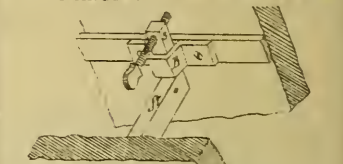
102,803, CHAS. EDWARD GIBBS.
COMB-CLEANERS.



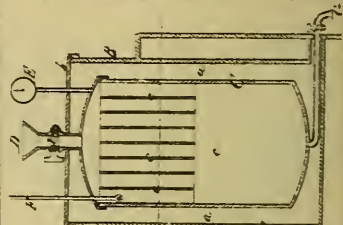
102,804, W. C. GIFFORD.
STANCHIONS FOR CATTLE.



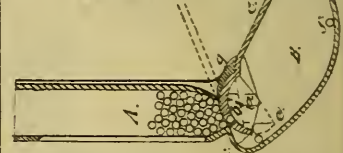
102,805, JOHN N. GILLISPIE.
DEVICE FOR
HANGING PICTURE-FRAMES, &c.



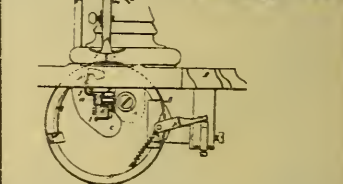
102,806, SAMUEL H. GILMAN
REFINING AND AGEING LIQUORS



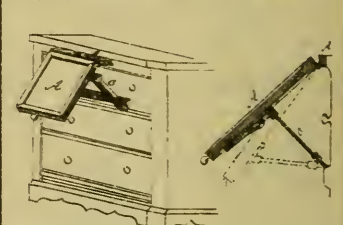
102,807, JOHN H. GOODFELLOW.
MARTIN RUSSELL, JR.
MATCH-BOX



102,808. JAMES E. GOWEN.
FEEDING-MECHANISM
FOR SEWING-MACHINE



102,809, GEORG S. GRAF. BUREAU.



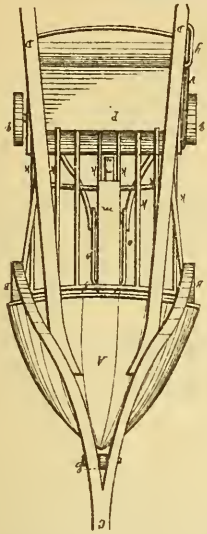
102,810, HENRY F. HAACK. PADLOCKS



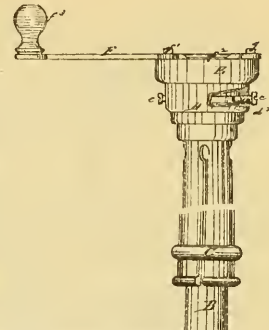
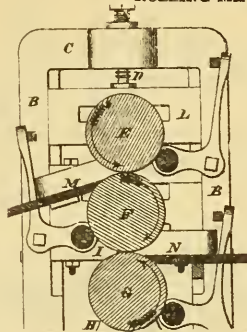
102,811.
JOHN HALL, JR.
OWEN FLANIGAN
POTATO-DIGGERS



102,812, JOHN HALL, JR.
POTATO-DIGGER.

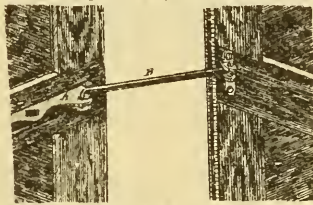


102,816, JOHN R. HASTINGS.
GEORGE HASTINGS, JR.
ROLLING-MACHINE.

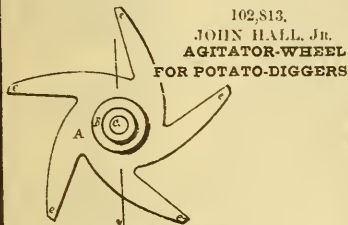
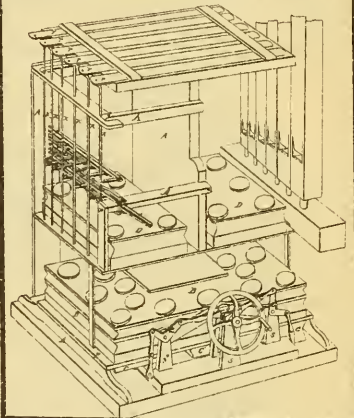


102,822, WILLIAM JACKSON.
CHURCH-ORGANS.

102,817, CYRUS N. HERR.
ADJUSTABLE SHUTTER-HOLDERS.

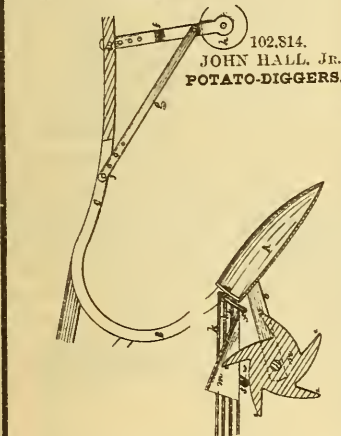
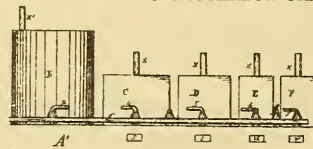


102,818, HENRY HICKMAN.
HAND CORN-PLANTERS.



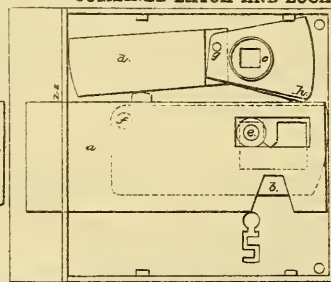
102,813,
JOHN HALL, JR.
AGITATOR-WHEEL
FOR POTATO-DIGGERS.

102,819, S. A. HILL.
CHAS. F. THUMM.
APPARATUS FOR DISTILLING
HYDROCARBON OILS.

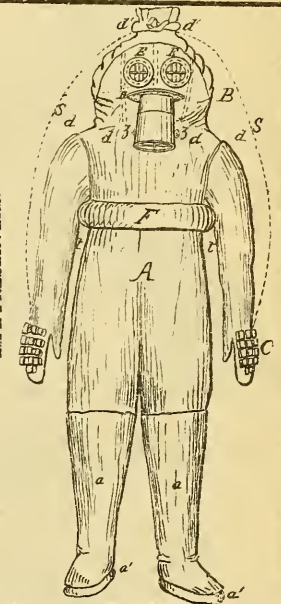


102,814,
JOHN HALL, JR.
POTATO-DIGGERS.

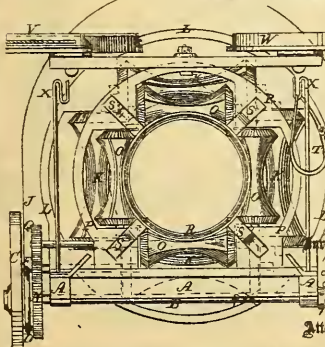
102,820, FRIEDRICH HOPPE.
COMBINED LATCH AND LOCK.



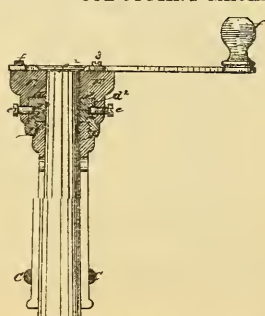
102,823, LYMAN JACOBS.
LIFE-PRESERVERS.



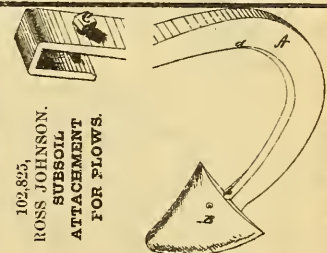
102,815, W. D. HARRAH.
I. M. GIFFORD AND E. T. JOHNSON.
GRAIN BINDER.



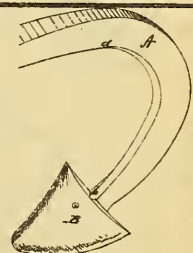
102,821, JOSEPH HUBER.
CUE-CUTTING MACHINE.



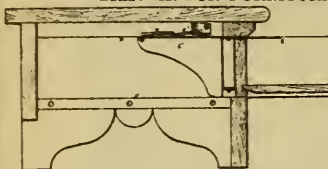
102,824, HENRY W. JOHNS.
ACID AND WATER-PROOF
COMPOSITION FOR COATING CLOTH.



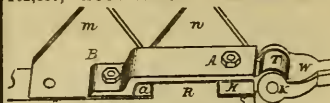
102,825,
ROSS JOHNSON.
SUBSOIL
ATTACHMENT
FOR PLOWS.



102,826, GEO. F. JOYCE.
DRAWER FOR FURNITURE.

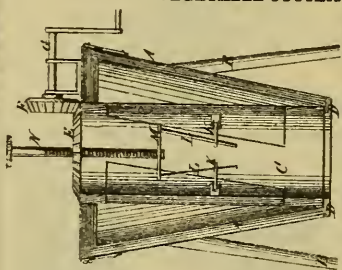


102,835, JACOB KLINE, HARVESTERS.

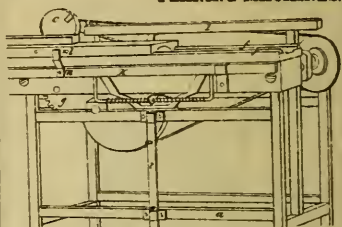


102,836, WILLIAM KRAMER.
HEALING-PLASTERS.

102,837, H. P. LAUER.
H. C. REICHARD.
VEGETABLE-CUTTER.



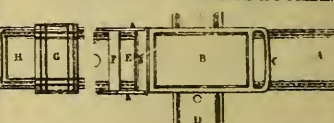
102,842, GEORGE H. MANSFIELD.
PLANING-MACHINES.



102,827, GEO. F. JOYCE.
SASH-SUPPORTERS.



102,843, THOMAS C. MARTIN.
JAMES OFFINER.
TRACE-BUCKLE.



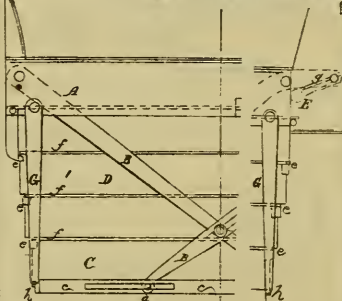
102,828.
ALBERT D. JUDD.
MATCH-SAFE.



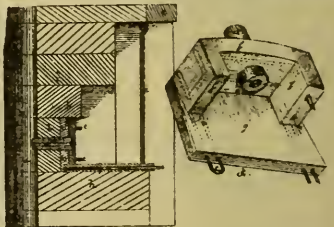
102,838, WM. P. LETCHWORTH.
BRIDLE-BIT.



102,839, CHRISTOPHER LIDREN.
PLATFORMS FOR HARVESTERS.



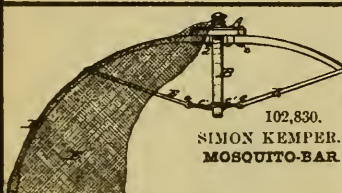
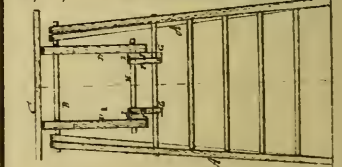
102,844, THOMAS W. McCUNE.
TWEERS OF BLAST-FURNACES.



102,829, DANIEL KELLY, BORING BITS.

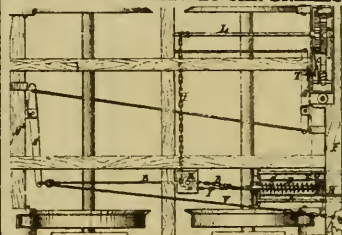


102,845, W. H. McHENCH, LADDER.



102,830.
SIMON KEMPER.
MOSQUITO-BAR.

102,840, ALMERIN H. LIGHTHALL.
RAILWAY-CAR BRAKES.



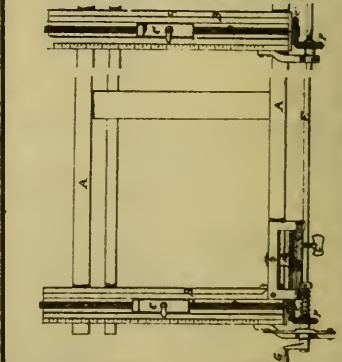
102,846, A. B. McKEON, PAVEMENTS.



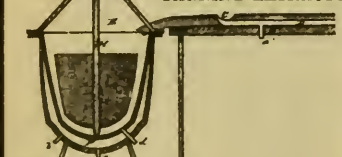
102,831, H. H. KENDRICK.
CLOTHES-DRIER.



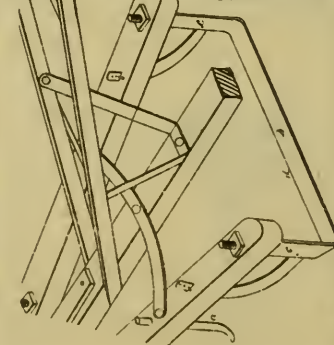
102,847, CORNELIUS MEINERS.
HEAD-BLOCKS OF SAW-MILLS.



102,832, S. H. KENNEDY.
APPARATUS FOR OBTAINING
TANNING EXTRACTS



102,841, TRUMAN MABBETT, SR.
CULTIVATORS.

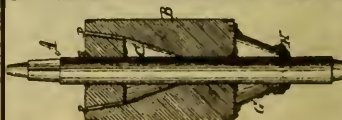


102,833, HERMANN H. KESSLER.
MANUFACTURE OF
MEDICATED MALT LIQUORS

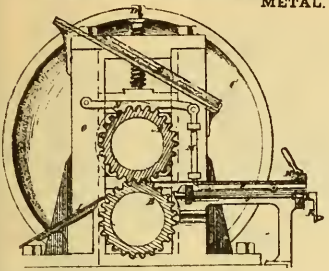
102,834, EDWARD KIRK FENCE.



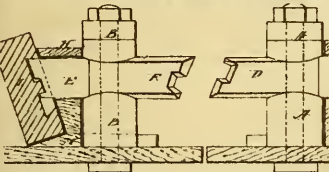
102,848, CARL MILLER.
SELF-PACKING BUSHES FOR SPINDLES



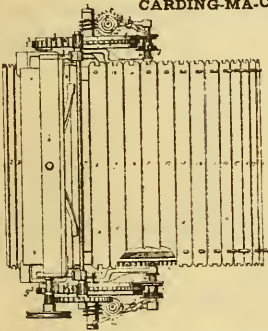
102,849, JAMES MONTGOMERY
APPARATUS FOR CORRUGATING
METAL.



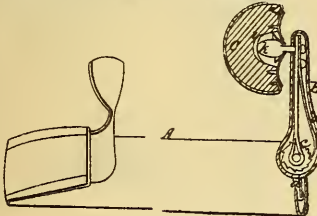
102,850, S. J. MOORE,
G. A. BUCKMAN
TOOLS FOR MAKING SLIDES
FOR EXTENSION-TABLES.



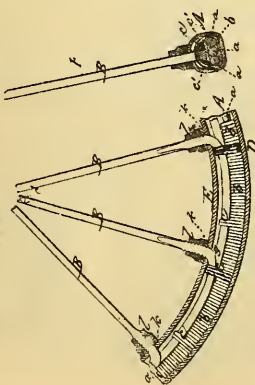
102,851, FERDINAND MORE.
MECHANISM FOR STRIPPING
THE TOP FLATS OF
CARDING-MACHINES.



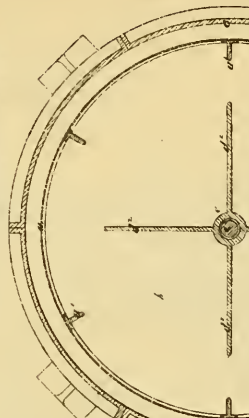
102,852, PETER MÜLLER. TRUSSES.



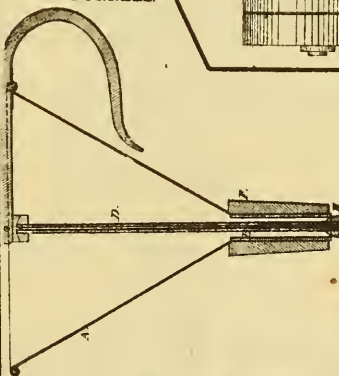
102,853, IRA F. MONTSON.
WHEEL FOR VEHICLES.



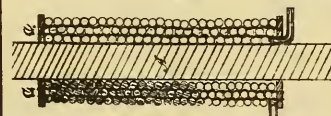
102,854, W. E. NEWTON.
APPARATUS FOR CLEANING AND
PREPARING RAGS FOR MANU-
FACTURE OF PAPER.



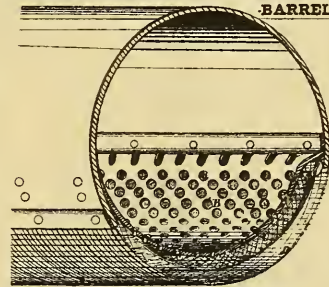
102,855,
P. H. NILES.
FUNNELS.



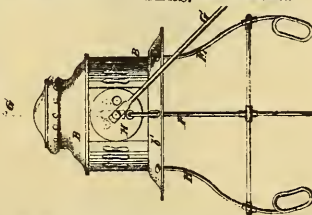
102,856, HENRY M. PAINE.
ELECTRO-MAGNETS.



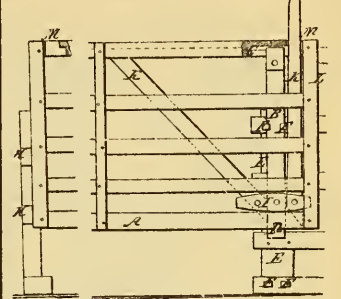
102,857, ALMARIN B. PAUL.
SELF-DISCHARGING PULVERIZING
BARREL.



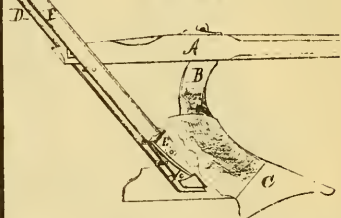
102,858, SAM'L. PETERS. LANTERNS.



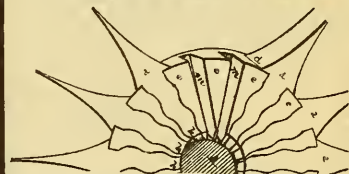
102,859, HOWARD PIPER.
FARM-GATES.



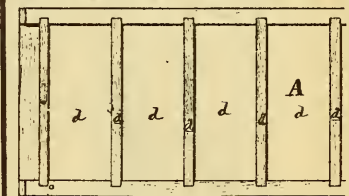
102,860, S. W. POPE.
FLOWS.



102,861, ROBERT POTTS,
NATHANIEL OGDEN.
SPOKES FOR WAGON-WHEELS.



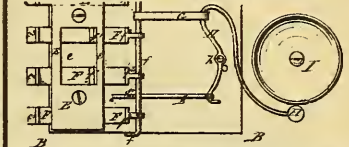
102,862, ALBERT T. PUTNAM.
BRICK-MOLDS AND BOTTOM-BOARDS.



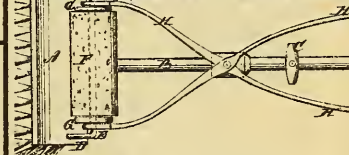
102,863, ADDISON C. RAND. WHIPS.



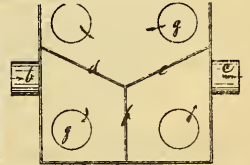
102,864, EDEN REED. ALARM-TILLS.



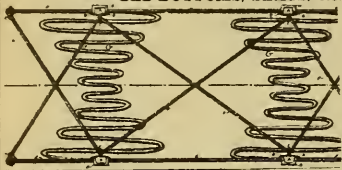
102,865, EDWIN REES. SCRUBBING
BRUSH AND MOP-WRINGER.



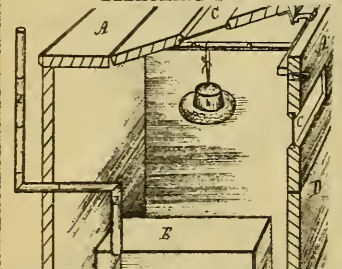
102,866,
JESSE REYNOLDS.
HEATING-DRUM.



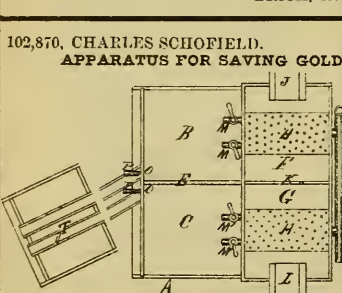
102,867, CHARLES RICH.
CONNECTION OF SPRINGS FOR
BED-BOTTOMS, SEATS, &c.



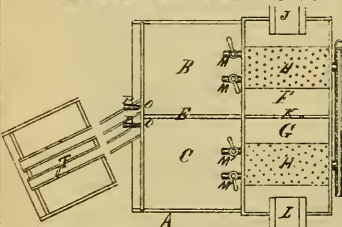
102,868, AMANDA M. ^{her} _{mark} ROSBRUGH.
BLEACHING STRAW GOODS.



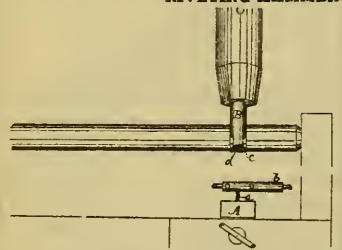
102,869, ELMOR J. SALISBURY.
PRESERVING AND HARDENING STONE,
BRICK, &c.



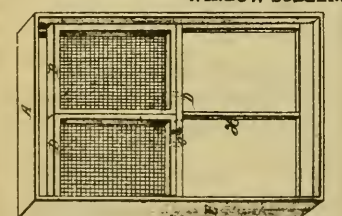
102,870, CHARLES SCHOFIELD.
APPARATUS FOR SAVING GOLD.



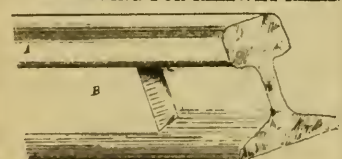
102,871, HENRY A. SEYMOUR.
WILFORD H. NETTLETON.
RIVETING-HAMMER.



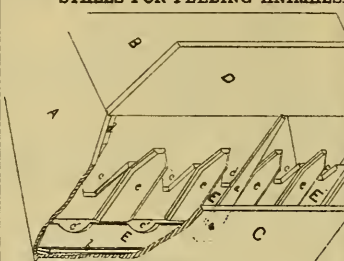
102,872, GEORGE SHATSWELL.
WINDOW-SCREEN.



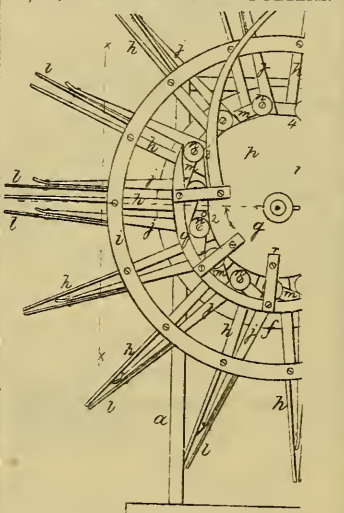
102,873, GEORGE SHATSWELL.
FASTENING FOR RAILWAY RAILS.



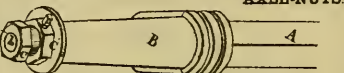
102,874, S. H. SHAW.
STALLS FOR FEEDING ANIMALS.



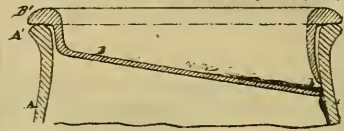
102,875, JAMES SMITH. FLAX-PULLERS.



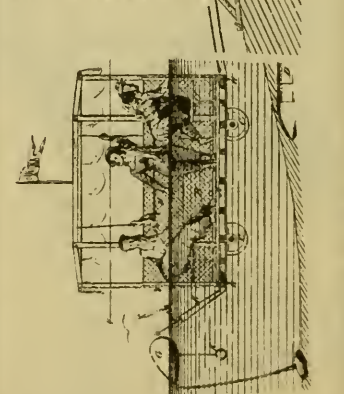
102,876, EDGAR A. STANLEY.
AXLE-NUTS.



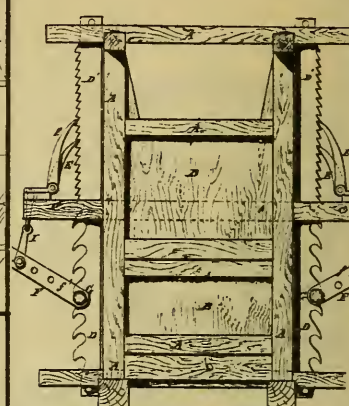
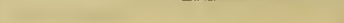
102,877, WILLIAM STOCKTON.
COVER FOR CHAMBER VESSELS.



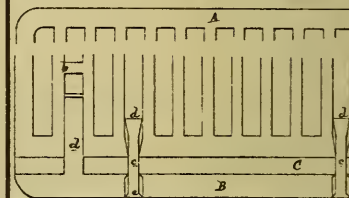
102,878,
WM. TELL STREET.
BATHING APPARATUS.



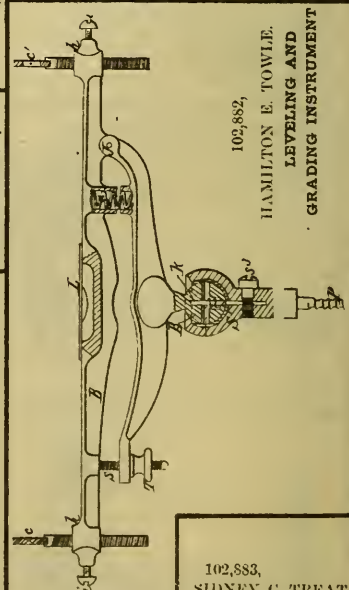
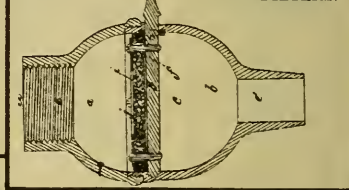
102,879 BRYANT F. STROUD
BALING-PRESSES.



102,880, LEVI STUCK.
STOVE-GRATE.

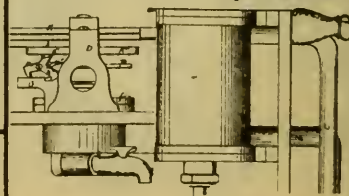


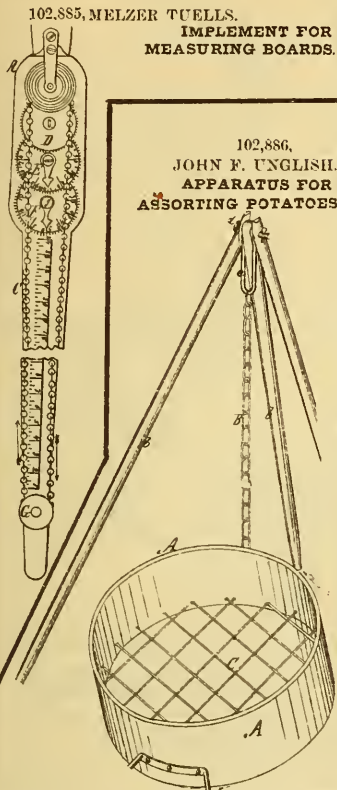
102,881, TAYLOR P. THOMPSON
FILTERS.



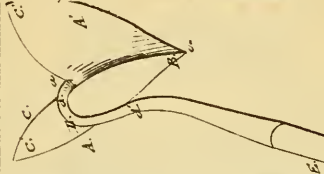
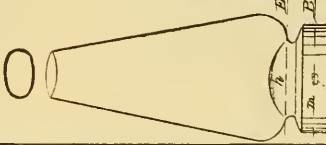
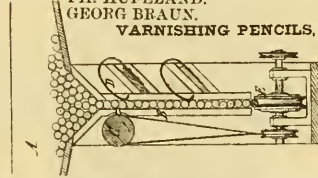
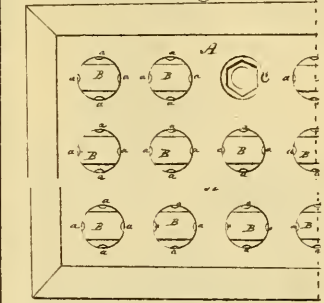
102,882,
HAMILTON E. TOWIE.
LEVELING AND
GRADING INSTRUMENT

102,883,
SIDNEY C. TREAT.
LIQUID-METERS.

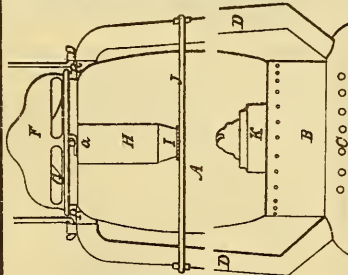
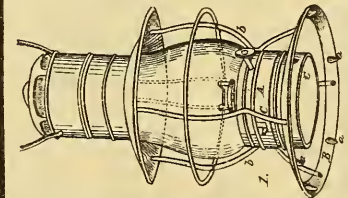
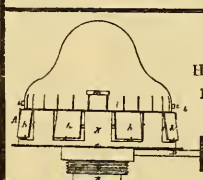
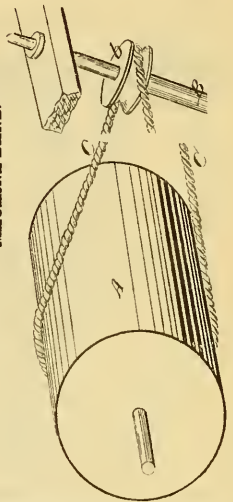
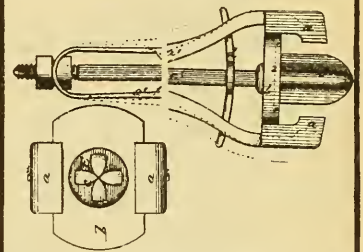
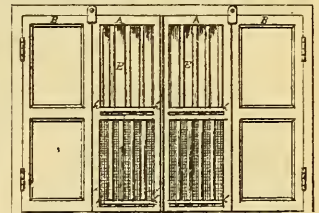


102,881, A. TRENAUNAY.
WOODEN-BLOCK PAVEMENTS.102,886,
JOHN F. ENGLISH.
APPARATUS FOR
ASSORTING POTATOES

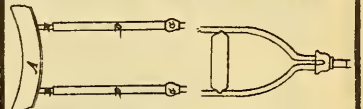
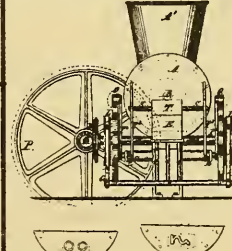
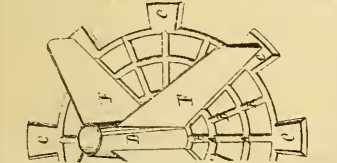
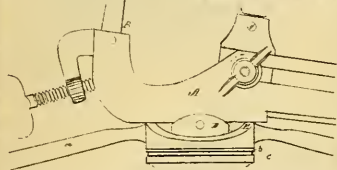
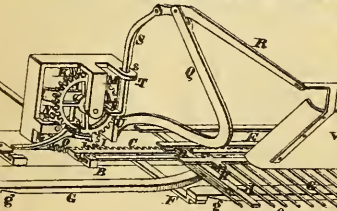
102,891, EDWARD WARREN. HOES

102,892, SYLVESTER W. WARREN.
LAMP-CHIMNEYS.102,893, ALBIN WARTH.
PH. HUFELAND.
GEORG BRAUN.
VARNISHING PENCILS, &c.102,894, WILLIAM WEICKER. MOLDS FOR
MAKING RUBBER PENCIL TIPS

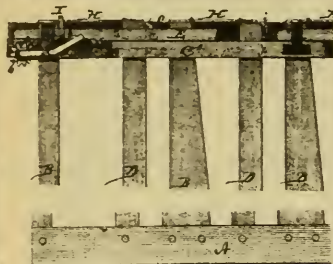
102,895, WM. WESTLAKE. LANTERNS.

102,896, WILLIAM WESTLAKE.
LANTERNS.102,897,
HIRAM J. WHITE.
LAMP-BURNERS.102,898, SAMUEL J. WHITTON.
MACHINE-BAND.102,899, THOS. WIGHTMAN.
SPRING CLAMP FOR GLASS-BLOWERS.102,900, BENJN. J. WILLIAMS.
BLIND, SCREEN, AND SHUTTER.

102,901, PETER R. WIMER. CRUTCHES.

102,902, HENRY C. WIRE.
WIRE AND STONE FENCE COMBINED102,903, ROBERT WOLFF.
BRICK-MACHINE102,885, MELZER TUELLS.
IMPLEMENT FOR
MEASURING BOARDS.102,887, ORRIN UPDIKE.
METALLIC CHURN-DASHER102,888, CHARLES VARNEY.
PEGGING-JACKS.102,889, DAVID VOGT.
HARNESS-BUCKLE.102,890, AARON WARD.
HARVESTER-DROPPERS.

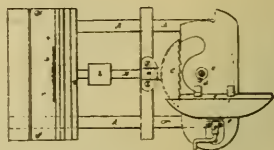
102,904, ELIJAH S. ALVORD.
STANCHIONS FOR SECURING CATTLE.



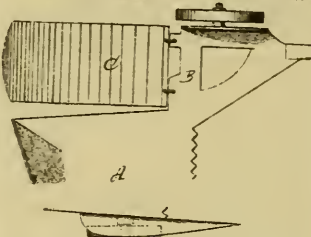
102,913. J. L. MASON. FRUIT JAR.



102,920, CHARLES HENRY DANA
MACHINE FOR THE
MANUFACTURE OF WOODEN TRAYS.

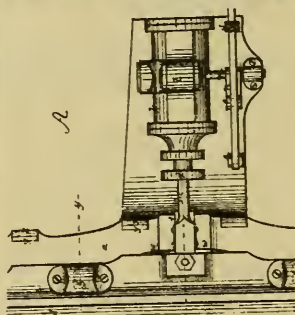


102,914, E. P. CADY. DROPPING
PLATFORM FOR HARVESTERS

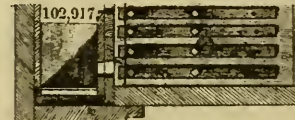


102,915, JAMES MARSHALL CALDWELL.
GEORGE W. CALDWELL.
INDELIBLE WRITING-FLUIDS OR INKS.

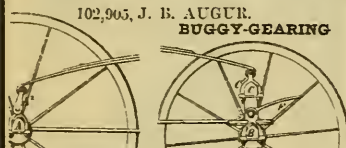
102,916, ETHAN R. CHENEY. MACHINE
FOR STRAIGHTENING BARS OF METAL



WILLIAM COURTNEY. BEE-HIVES.

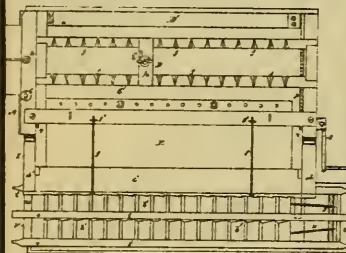


102,905, J. B. AUGUR.
BUGGY-GEARING

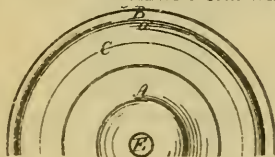


102,906, HAYDN M. BAKER.
MANUFACTURE OF SOAP.

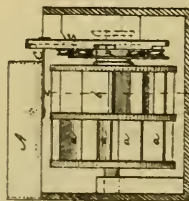
102,907, LURANDUS BEACH.
LURANDUS L. BEACH, JR.
MACHINES FOR CUTTING,
STAMPING, AND PACKING SOAP.



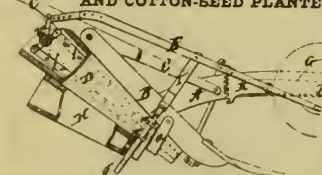
102,908, CHAS. K. BRADFORD
RAILWAY-CAR WHEEL



102,909,
TRUMAN BRISTOL.
WATER-WHEELS

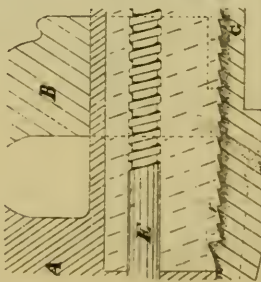


102,910, RHODOM M. BROOKS.
FERTILIZER-DISTRIBUTOR, CORN
AND COTTON-SEED PLANTER.

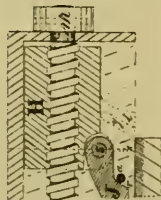


102,911, H. V. BROWNING.
COMPOSITION FOR VARNISHES, &c.

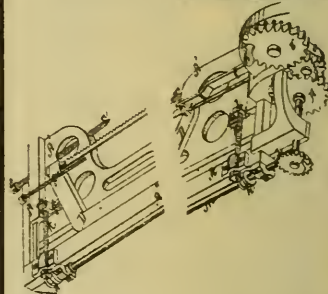
102,912, J. PALMER BUDD.
MANUFACTURE OF IRON AND STEEL.



102,919, EDWIN CRAWLEY.
THOMAS L. BAYLIES
VISES.



102,921, MARCUS E. DEAN.
SAWING-MACHINES.

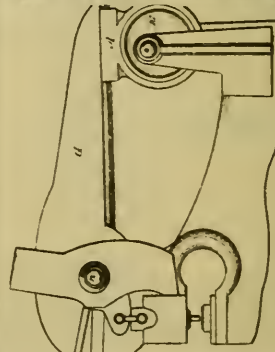


102,922, P. S. DEVLAN. COMPOSITION
FOR COATING WOOD, METAL &c.

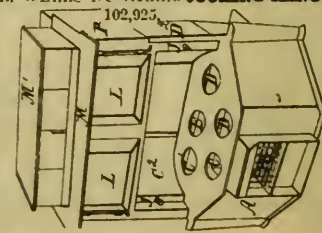
102,923 HENRY DISSTON.
PACKING-CASE FOR SAWS.

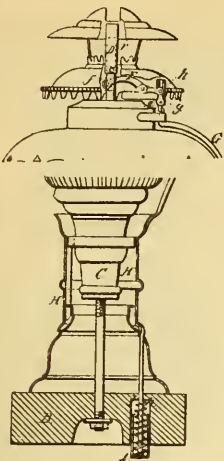
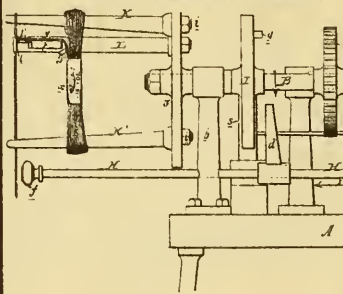


102,924, ELLIS DOTY.
MACHINES FOR PUNCHING METAL.

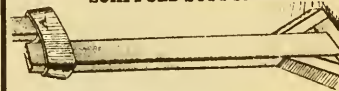
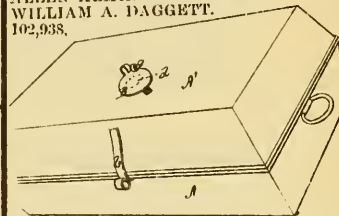
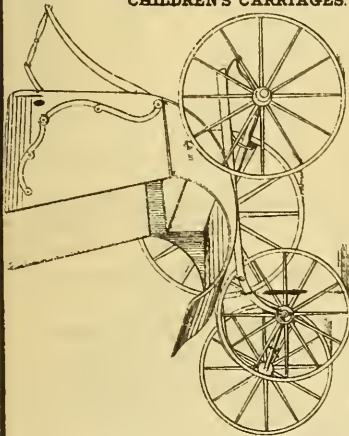


R. WELLS DUNKLEE. COOKING-RANGE.

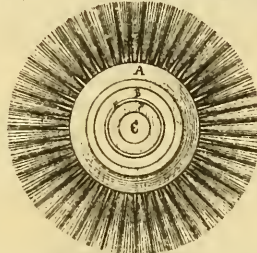
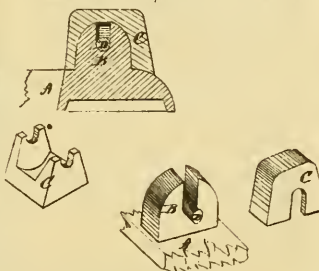
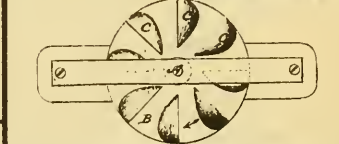
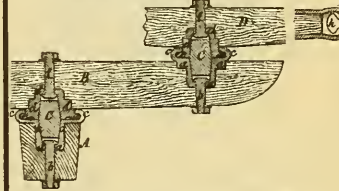
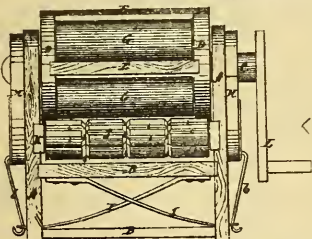
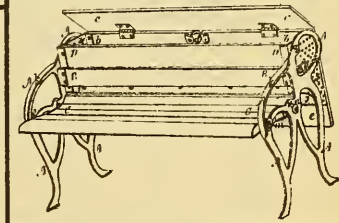
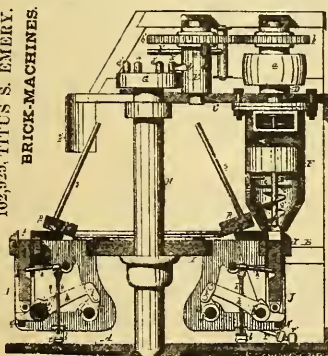
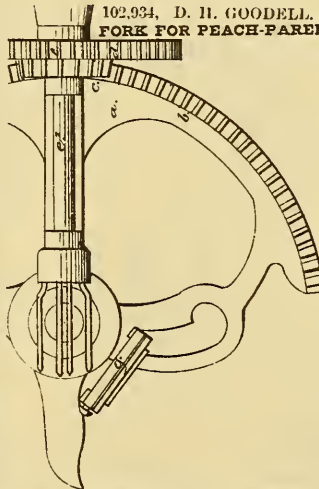
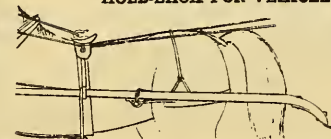
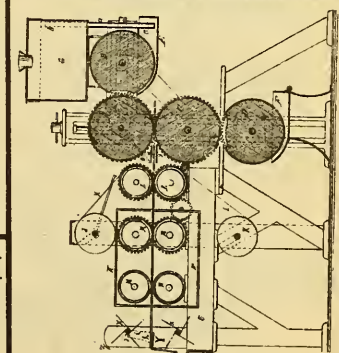


102,926, WILLIAM C. EBERT.
LAMP-EXTINGUISHERS.102,931, GEORGE PENRICE FARMER.
MACHINE FOR FOLDING OR WINDING
AND MEASURING CORDS. &c.

102,936, WILLIAM S. HANCOCK. BROOM

102,937, D. B. HAY.
SCAFFOLD-SUPPORTER.ALLEN HEMINWAY. BAKING-PAN.
WILLIAM A. DAGGETT.
102,938.102,927, ROSCOE G. ELDER.
CHILDREN'S CARRIAGES.

102,932, PHILIP FELKER. BRUSH-WHEEL

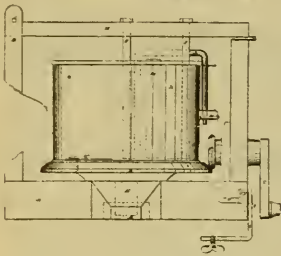
102,933, JAMES M. VIFE.
CASTING LUGS IN STOVE-PLATES.102,939, WM. H. HUBBARD.
WATER-WHEELS.102,940, JOSEPH INGELS.
DOUBLE AND SINGLE-TREE
FASTENINGS FOR CARRIAGES.102,928, DANIEL ELICKER.
WASHING-MACHINE.102,941, JOSEPH INGELS.
SCHOOL-DESK AND SEAT.102,929, TITUS S. EMERY.
BRICK-MACHINES.102,934, D. H. GOODELL.
FORK FOR PEACH-PARERS.102,935, W. H. GROESBECK.
HOLD-BACK FOR VEHICLES.102,942, GUSTAV L. JAEGER.
MACHINES FOR LINING
AND DRYING PASTEBOARD. &c.

ELIJAH EVANS.

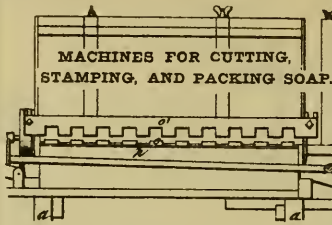
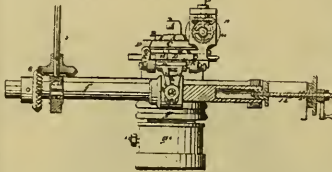
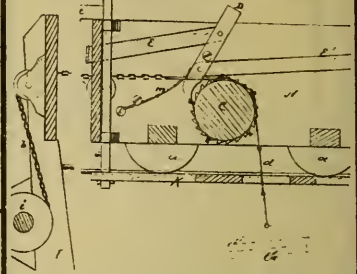
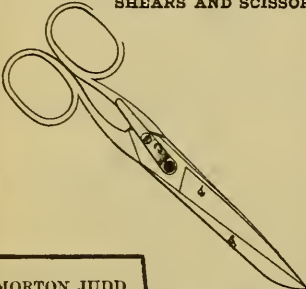
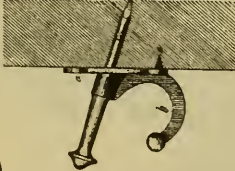
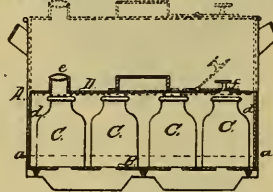
102,930.

STOVE-LEGS.

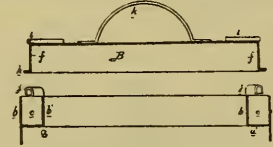
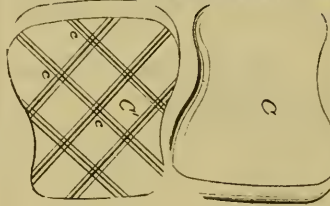
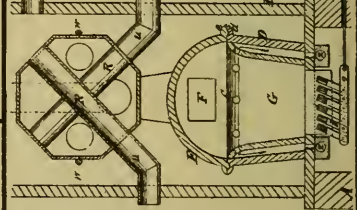
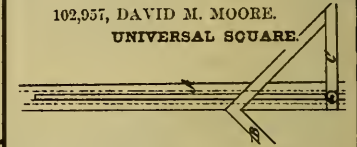
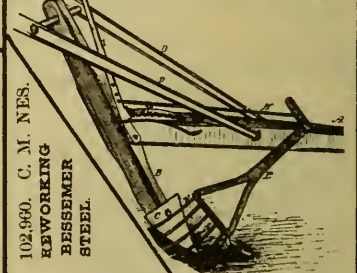
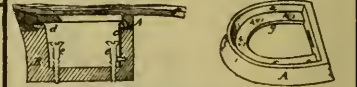
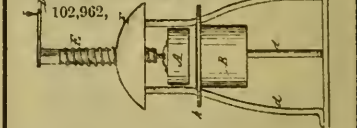
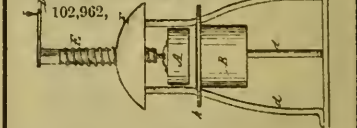
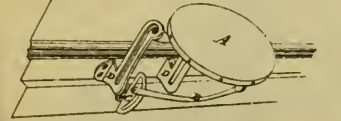
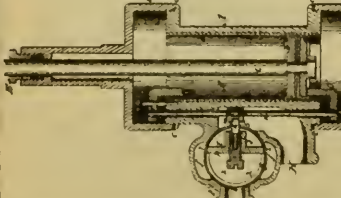
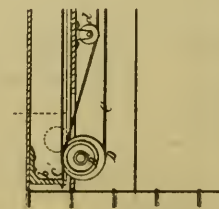
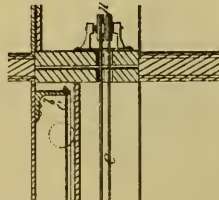


102,943, LEMUEL P. JENKS.
BREAD-MACHINE.

102,949, CHARLES LEHMANN.

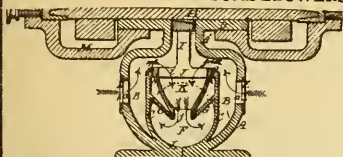
102,950, THOS. LIPPIATT. MACHINE FOR
ENGRAVING AND
CHASING ARTICLES OF METAL.102,955, ARCHIBALD A. McPHEETERS.
ROBERT P. McPHEETERS.
WATER-ELEVATOR AND CARRIER.102,944, CHARLES C. JOHNSON.
SHEARS AND SCISSORS.MORTON JUDD.
H. L. JUDD.
102,945,
COAT AND HAT-HOOKS.F. KILSHEIMER.
102,946, SHOES.102,951, WILLIAM W. LYMAN.
APPARATUS FOR PRESERVING FRUIT.

102,952, STIMMEL LUTZ. FRUIT-CANS.

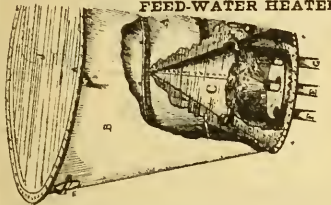
102,953, C. K. MARSHALL.
HARNESS-SADDLES.GEO. H. MILLER. HOT-AIR FURNACE.
102,956,102,957, DAVID M. MOORE.
UNIVERSAL SQUARE.102,958, ELIZA D. MURFEY.
MATERIAL FOR PACKING
JOURNALS AND BEARINGS.102,959, B. F. NEELY. CLOD-FENDER
AND CULTIVATOR COMBINED.102,960, C. M. NES.
REWORKING
BESSEMER
STEEL.102,961, GIDEON E. NEWCOMB.
BOOT AND SHOE-HEEL.DOMINICK OBERGFELL.
NOODLE-MACHINE.102,963, WILLIAM PENDLETON.
HENRY M. BOARDMAN.
COTTON-PRESSES.102,947, DANIEL H. KRAUSER.
COUNTER SEAT.102,948, A. D. LAWS.
HYDRAULIC ENGINES.102,954, JAMES H. MCKERNAN.
MODE OF OPERATING
SHUTTERS FOR HATCHWAYS.

102,964, JOSEPH PERRAULT.

PRESSURE BLOWERS.



102,965, WILLIAM PHELAN.

CONDENSER AND
FEED-WATER HEATER.

102,966, ZEPHANIAH PHILLIPS.

CARPENTERS' PLANE.



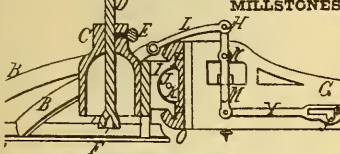
102,967, HUGH M. PHINNEY.

VENTILATOR-REGISTER.



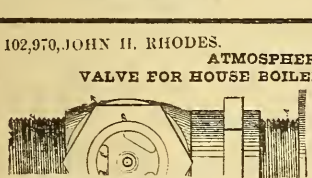
102,968, WILLIAM PICKENS.

PETER DALRYMPLE.

MACHINES FOR DRESSING
MILLSTONES.

102,969, JUAN POEY.

MANUFACTURE OF SUGAR.

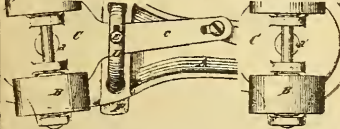


102,970, JOHN H. RHODES.

ATMOSPHERIC
VALVE FOR HOUSE BOILERS.

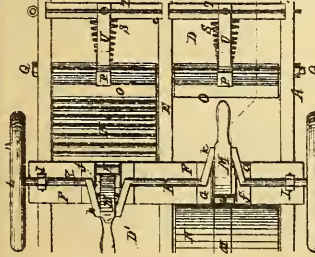
102,971, HIRAM ROBBINS.

ROLLER-SKATES.



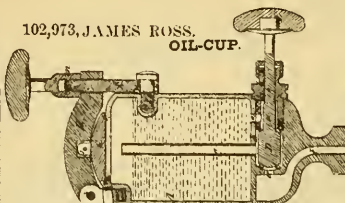
102,972, JOB ROBINSON.

WASHING-MACHINE.



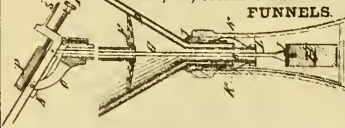
102,973, JAMES ROSS.

OIL-CUP.



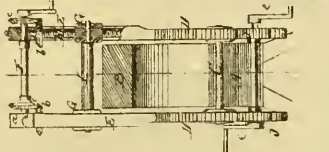
102,974, CARL RUF.

FUNNELS.



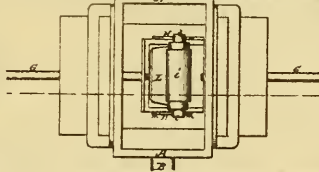
102,975, J. J. H. SERCOMBE.

BENDING-MACHINE.



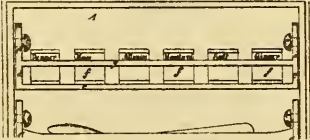
102,976, GERARD SICKELS.

WATER-METERS.



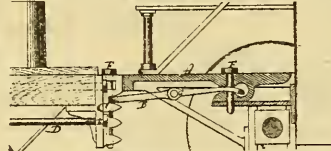
102,977, SIGMUND SIMONSON.

TABLES AND COUNTERS.



102,978, THOS. D. SIMPSON.

LOCOMOTIVE AND TENDER-COUPLING.



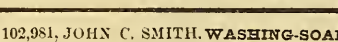
102,979, LUTHER SISSON.

GARDEN-RAKES.

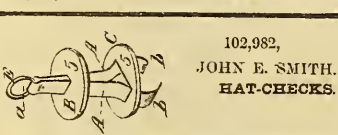


102,980 GEO. H. SMITH.

MEDICAL COMPOUND.



102,981, JOHN C. SMITH. WASHING-SOAP

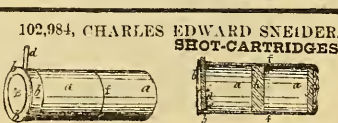


102,982,

JOHN E. SMITH.
HAT-CHECKS.

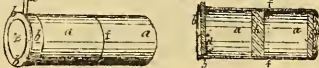
102,983, THOS. FRANKLIN SMITH.

MEDICATED SOAP.



102,984, CHARLES EDWARD SNEIDER.

SHOT-CARTRIDGES.

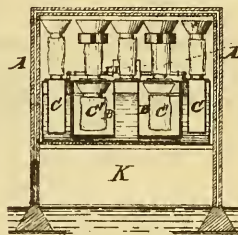


102,985, WILLIAM B. SNYDER.

VAGINAL SYRINGES.

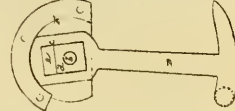


102,986, D. E. SOMES.

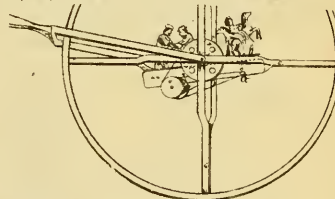
APPARATUS AND PROCESS FOR
REFRIGERATING, PRESERVING,
AND VENTILATING.

102,987, CHARLES C. STEWART.

FOUNDRY FLASK-CLAMPS.



102,988, CEBRA L. TAYLOR. TOY HOOP

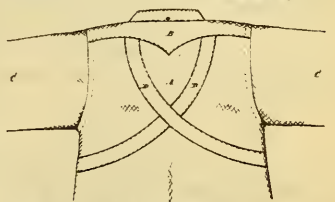


102,989, P. D. TIFFT.

WARP-STAND FOR LOOM.

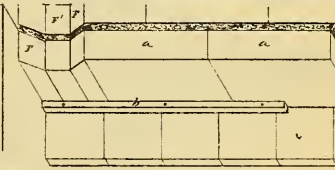


102,990, HENRY WALLACH. SHIRTS.



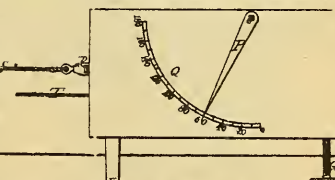
102,991, C. G. WATERBURY.

WOODEN STREET PAVEMENTS.



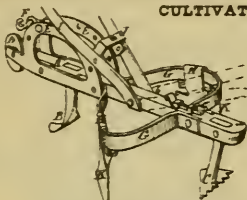
102,992, W. B. WATKINS.

THERMOSTAT FIRE-ALARM.



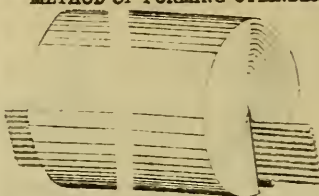
102,993. NATHAN G. WEBBER.

CULTIVATORS

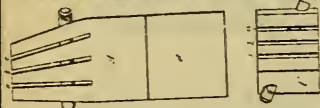


103,001, HENDERSON WILLARD.

METHOD OF FORMING CYLINDERS.



102,994, R. B. WEBSTER.

IMPLEMENT FOR TURNING THE EDGE
OF A SHOEMAKERS BUFF-ING-KNIFE

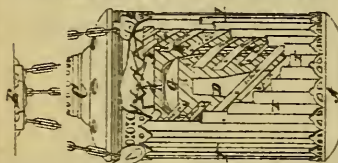
103,002. A. L. WILLIAMS.

FLOUR BOLTING REEL



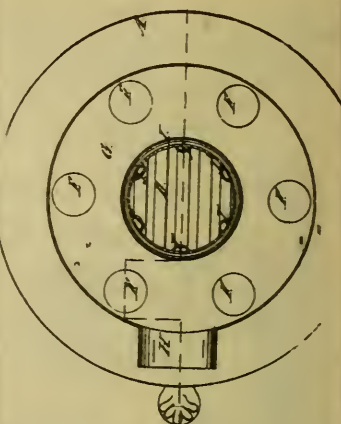
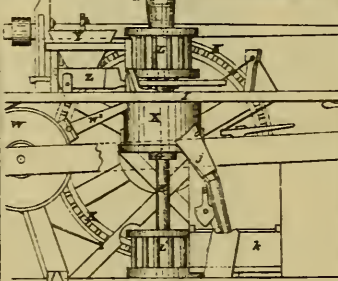
102,995, A. W. WEHRHAN.

LAMPS FOR HALLS, GARDENS, &c.

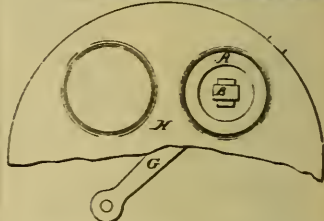


103,003, URIAH BOWMAN.

FLOURING-MILLS.

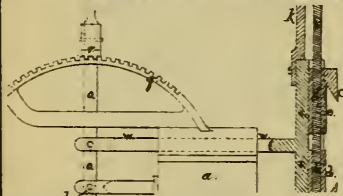


3,966, EDWARD REGAN.

DEVICE FOR FLANGING
FLUE-HOLES OF BOILER-HEADS.

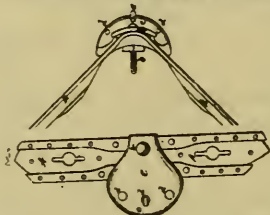
102,996, WINSLOW WELLINGTON.

HEAD-BLOCKS OF SAW-MILLS



103,004, PETER BURNS.

SEATS FOR HARNESS-SADDLES.

102,997, JAMES D. WHELPLEY.
JACOB J. STORER.FEED APPARATUS FOR GRINDING
MILLS, &c.

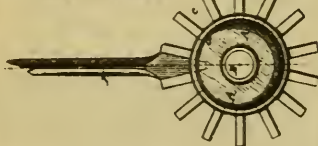
3,963, JOHN B. FLETCHER.

RAILWAY AXLE-BOX.

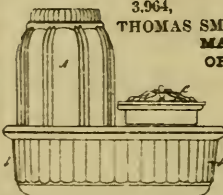


102,998, CHARLES P. WHITMAN.

WHEEL-HUBS

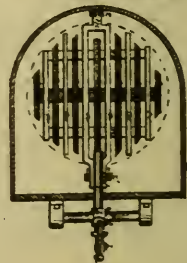


3,964,

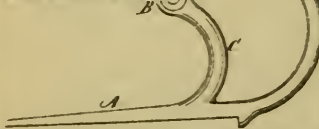
THOMAS SMITH HUDSON.
MANUFACTURE
OF INKSTANDS.

3,967, E. S. RENWICK.

GRATES FOR FURNACES.

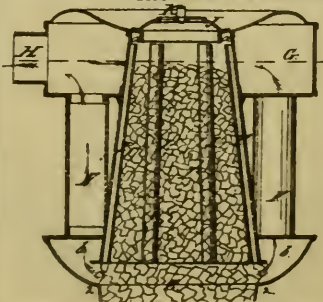


102,999, STEPHEN M. WIER.

GOOSE-NECK FOR HANGING
CARRIAGE-SPRINGS

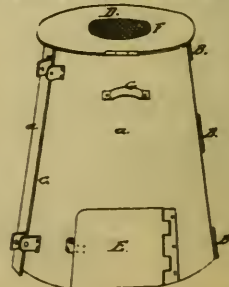
3,965, GEO. G. HUNT.

BASE-BURNING STOVE.



3,968, HENDERSON WILLARD.

STOVE FOR BURNING STUMPS.



103,000, HENDERSON WILLARD.

BARREL



ILLUSTRATIONS OF PATENTS

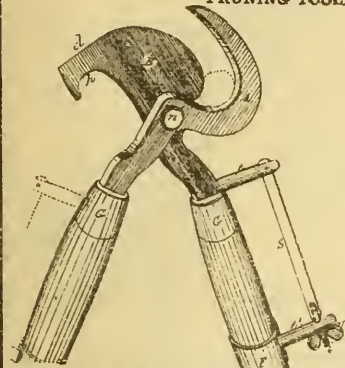
ISSUED FROM

THE UNITED STATES PATENT OFFICE

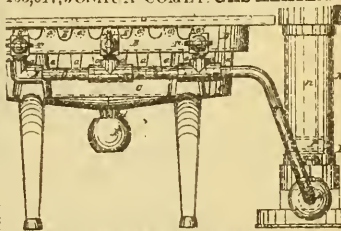
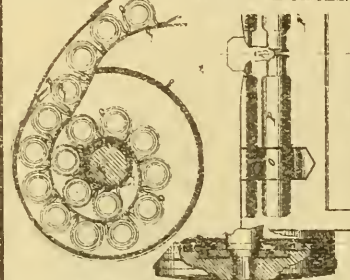
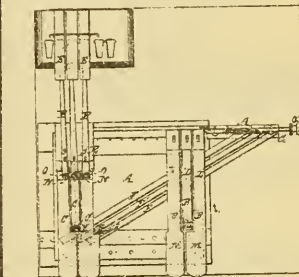
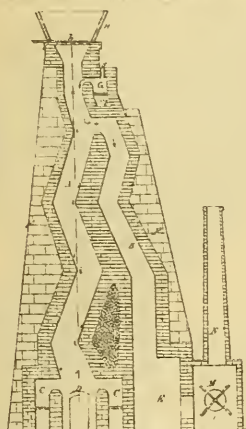
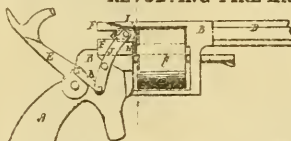
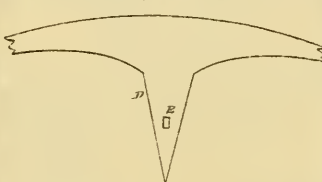
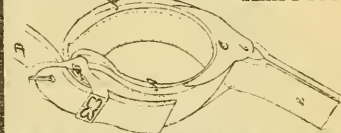
MAY 17, 1870.

103,005. G. W. AINSLEY.

PRUNING TOOL.

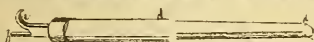
103,011. ABNER BURBANK.
LAMPS.

103,017. JOSHUA COMLY. GAS-HEATER.

103,012. ALPHONZO BUTTON.
MEDICINE-CASES.103,018. JOSEPH J. COMSTOCK.
JAMES ABORN.MANUFACTURE
OF IMITATION HAIR-CLOTH.103,019. GEORGE COOK.
SUB-BASE REED-ORGAN COUPLERS.103,006. I. P. AREY.
FURNACE FOR ROASTING, OXIDIZING,
AND CHLORIDIZING ORES.103,013. GEORGE W. H. CALVER, M. D.
REVOLVING FIRE-ARMS.103,014. CHAS. CARROLL.
DIGGING AND TAMPING-PICK.103,020. WILLIAM HURD CORRELL.
SHAFT-TUG.

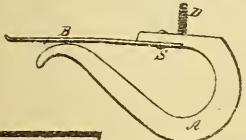
103,007. FRANCIS F. RIBBER.

HANDLES FOR BOAT-HOOKS, &c.



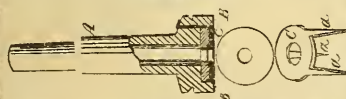
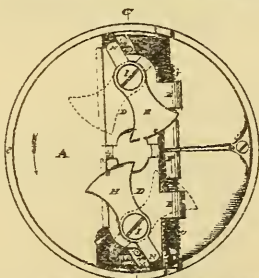
103,008. GRINFILL BLAKE.

REIN-HOOK.



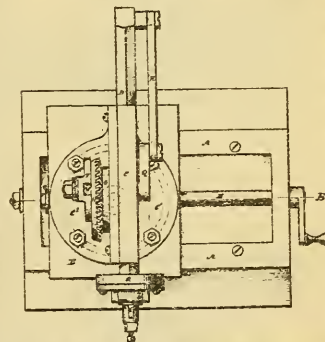
103,009. M. BLISS.

BOBBINS.

103,015. LORING COEN. AUTOMATIC
FRICTION DOG LATHE-CHUCK.

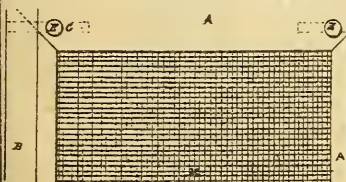
103,021. ALFRED B. COUCH.

SHAPING-MACHINE.



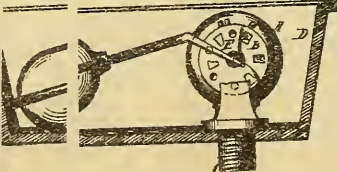
103,010. A. C. BROWN.

WINDOW-SCREEN.



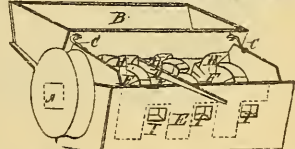
103,016. ISAIAH B. COLEMAN.

STEAM-TRAPS.

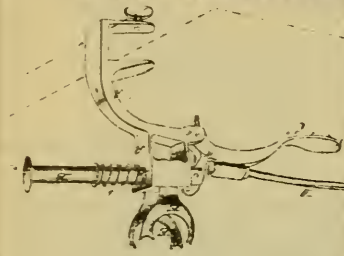


103,022. CHARLES H. COWLES.

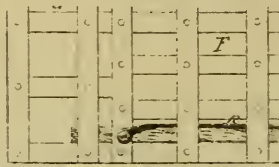
SEEDING-MACHINES.



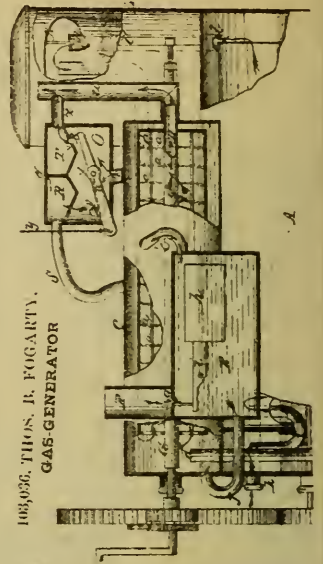
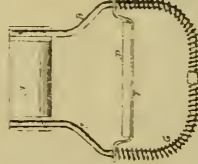
103,023, GEORGE W. DALBEY.
ONE-ARMED MAN'S ASSISTANT.



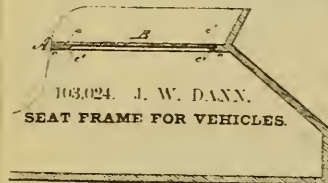
103,030, JAMES F. DUFFY,
WILLIAM P. FRAILEY.
SPRING BED-BOTTOM.



103,031, JOSEPH A. DUNNAGAN.
SADDLE-STIRRUP.

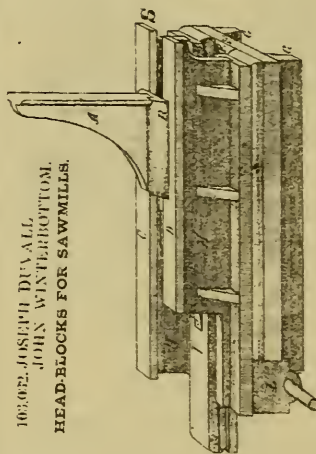
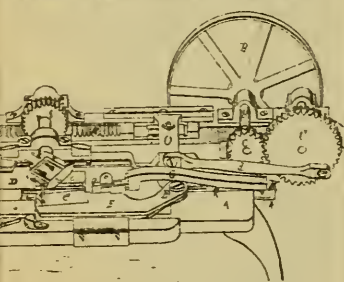


103,036, THOS. E. FOGARTY.
GAS-GENERATOR.

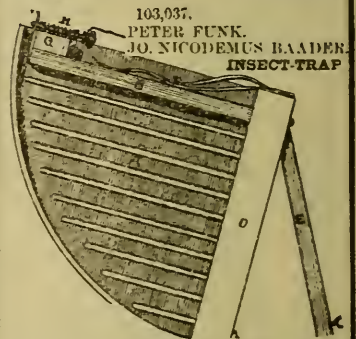


103,024, J. W. DANN.
SEAT FRAME FOR VEHICLES.

103,025, MAXIME DECELLE.
SPIKE, BOLT, AND RIVET-MACHINE.



103,032, JOSEPH DUVALL,
JOHN WINTERBOTTOM.
HEAD-BLOCKS FOR SAWMILLS.



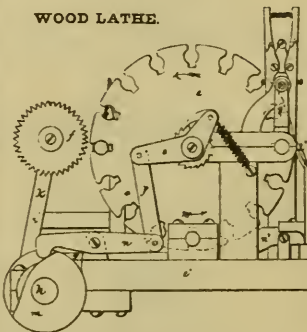
103,037,
PETER FUNK,
JO. NICODEMUS BAADER.
INSECT-TRAP.

103,026, LEVI DEDERICK.
SLEEPING-COLLARS.

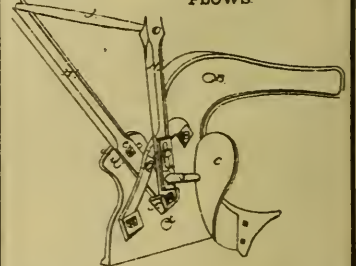


103,033, L. H. DWELLEY.

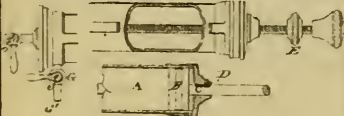
WOOD LATHE.



103,028, HORATIO GALE.
PLOW.



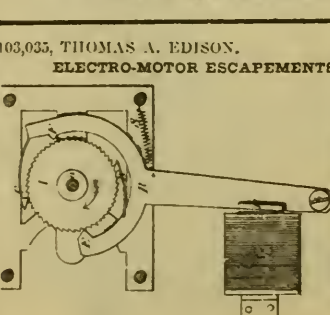
103,027, G. DIEULAFOY.
SUB-CUTANEOUS EXHAUSTER.



103,028, LEWIS DODGE.
CONSTRUCTION OF
TUNNELS AND DAMS.



103,034, ITHAMAR F. EATON.
COMPOSITION TO PREVENT THE
SLIPPING OF MACHINE-BELTS.

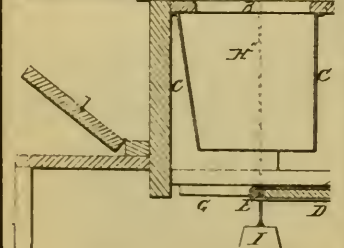


103,035, THOMAS A. EDISON.
ELECTRO-MOTOR ESCAPEMENTS.

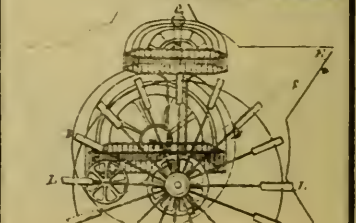
103,039, HENRY GERECKE.
FLUTING-TONGS.

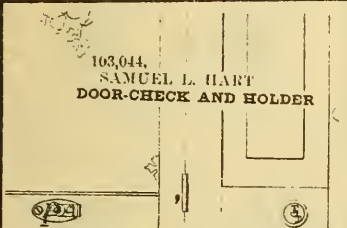
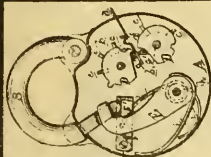
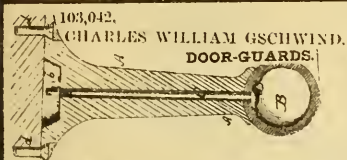


103,029, JAMES ADDISON DRAKE.
EARTH-CLOSETS.

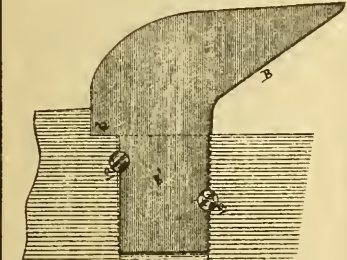


103,040, GHISI, GIUSEPPE
(JOSEPH GHISI).
PROPELLING VESSELS.

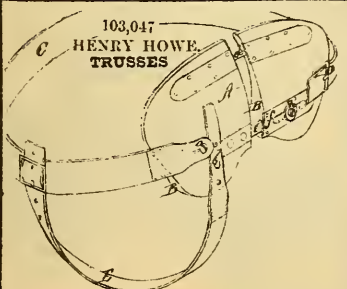
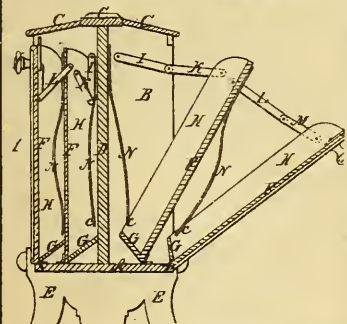
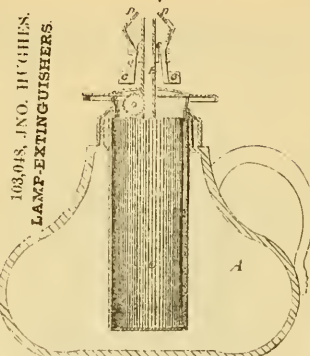
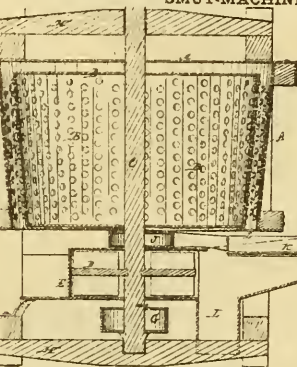
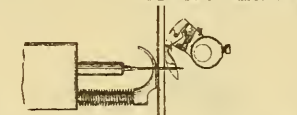
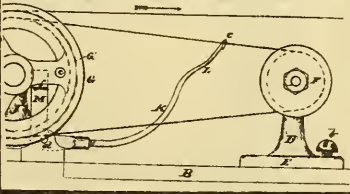
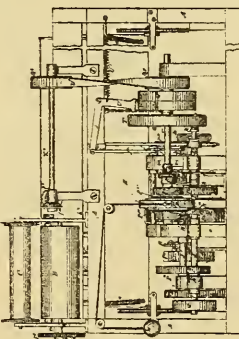
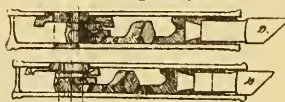
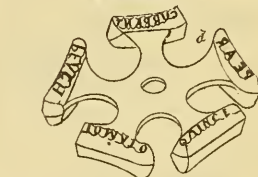
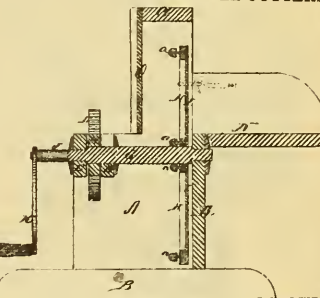
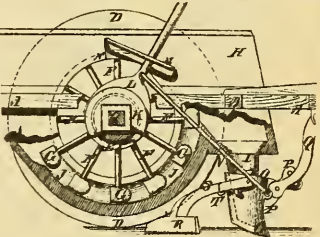
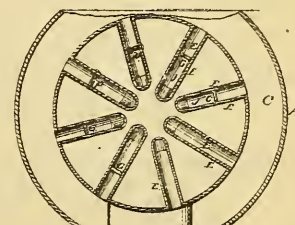


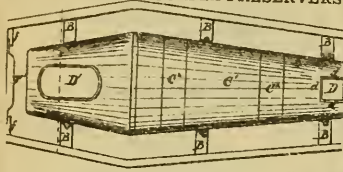
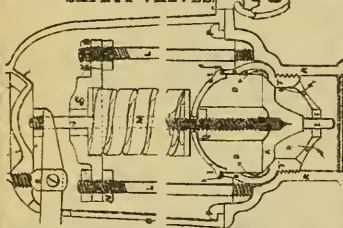
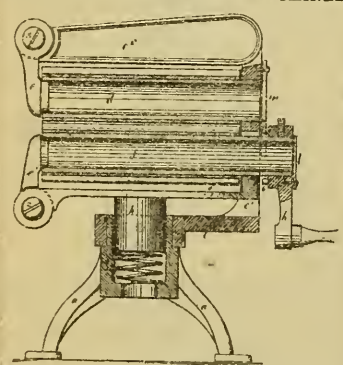
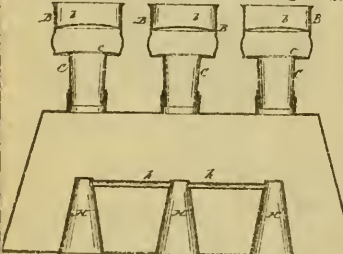
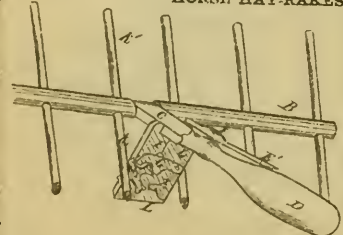
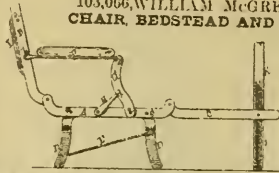
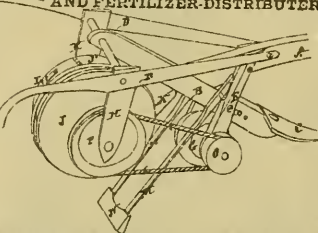
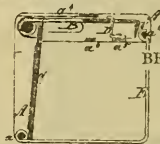
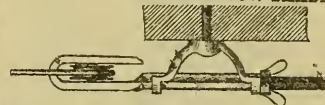
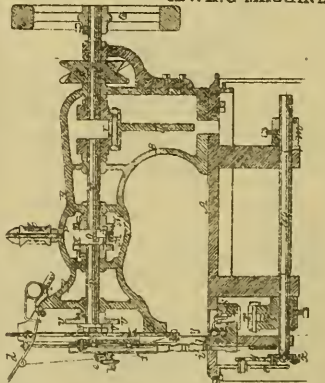
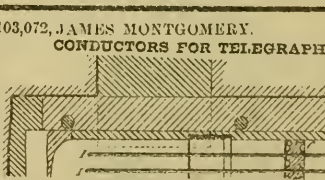
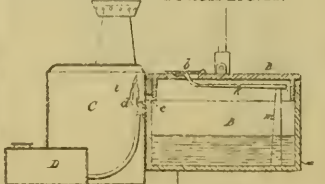
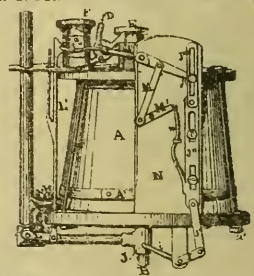
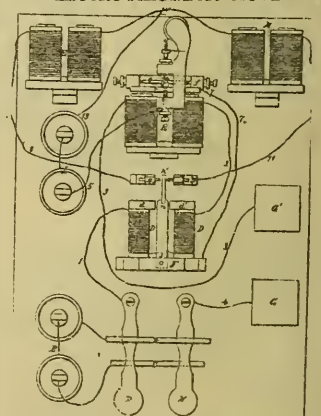
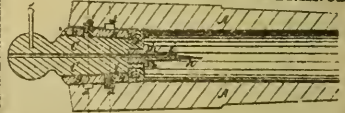
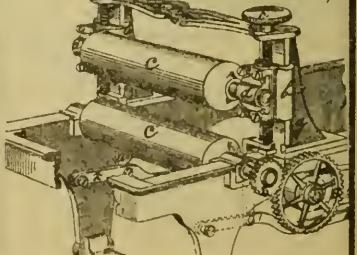


103,045, GEORGE L. HILES. SAW-TEETH.



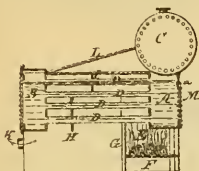
103,046, JOHN R. HILL. MUSIC-RACK.

103,048, JNO. HUGHES.
LAMP-EXTINGUISHERS.103,049, FRED HILENFELDT.
SMUT-MACHINES.103,050, MICHAEL ASH KEABLES.
LOOPING-HOOK FOR
SEWING-MACHINES.103,051, GEORGE R. KENNEDY.
MACHINES FOR STRETCHING SILK &c103,052, EDWARD E. KILBOURN.
MACHINES FOR SPINNING WOOL.103,053, JACOB KINZER.
REVERSIBLE LATCHES.103,054, JACOB KINZER.
REVERSIBLE LATCHES.103,055, JACOB KINZER.
SAUCEPAN HANDLES.103,056, JACOB KINZER.
STAMPS FOR FRUIT-CANS.103,057, NICHOLAS KIPTER.
VEGETABLE-CUTTERS.103,058, J. KREHBRIL.
POTATO PLANTER.103,059, W. H. LAW.
STEAM-GENERATORS.

103,060, HENRY LEE.
CORPSE-PRESERVERS.103,061, C. V. LITTLEPAGE.
ELECTRIC FOOT-WARMERS.103,062, JOHN D. LYNDE.
SAFETY-VALVES.103,063, E. J. MANVILLE.
FLUTING-MACHINES.103,064, JAMES B. MASON. COLD-CAP
STILL FOR THE DISTILLATION
OF ALCOHOLIC AND OTHER LIQUIDS.103,065, JOSEPH A. MCGEE.
HORSE HAY-RAKES.103,066, WILLIAM MCGREGOR.
CHAIR, BEDSTEAD AND CRIE.103,067, WILLIS M. McLENDON.
COMBINED COTTON-SEED PLANTER
AND FERTILIZER-DISTRIBUTER.103,068,
BRYANT H. MELENDY.
COMBINED
DOOR-FASTENERS
AND KEY-RINGS.103,069, CHARLES H. MILLER.
CORD-TENSION DEVICE
FOR WINDOW-SHADES.103,070, ADAM MOLTZ.
SEWING-MACHINES.103,071, NATHANIEL MONROE.
PACKING FOR THE
JOURNAL-BOXES OF RAILROAD CARS.103,072, JAMES MONTGOMERY.
CONDUCTORS FOR TELEGRAPHS.103,073, F. A. MORLEY.
TORCH-LIGHT.103,074, JOSEPH NAFTEL.
COMPOUND FOR MANUFACTURE
OF VARNISH AND PAINTS.103,075, GEORGE E. NORRIS.
SAW-FILING INSTRUMENT.103,076, J. H. PATTEE AND
G. H. NYE. STEAM VACUUM PUMP.103,077, FRANK L. POPE.
ELECTRO-MAGNETIC MOVEMENT.103,078, ABIA THER FALES POTTER.
BREACH-LOADING ORDNANCE.103,079, TIMOTHY J. POWERS.
CARTRIDGE-CASES.103,080, JOHN RICHARDS.
Wood Planing

103,081, PETER RILEY.

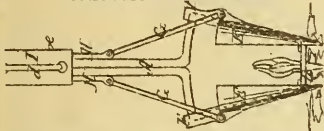
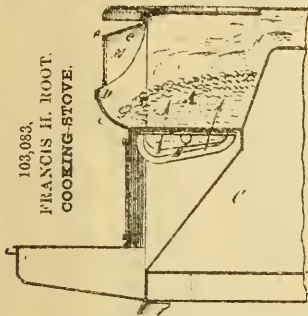
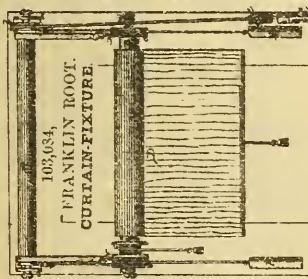
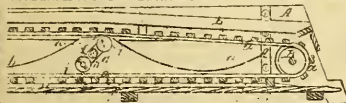
STEAM-GENERATORS.



103,082, EDWIN B. ROBERTS.

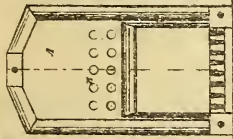
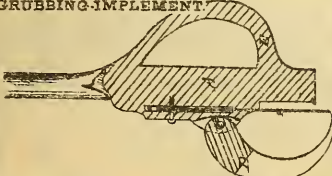
WILLIAM GRAHAM.

TRANSPLANTING IMPLEMENT.

103,083,
FRANCIS H. ROOT.
COOKING-STOVE.103,084,
FRANKLIN ROOT.
CURTAIN-FIXTURE.103,085, DANIEL RUGGLES. COMPOSTING
MANURES AND FERTILIZERS.103,086, CLEMENT RUSSELL. STRAW
W. K. MILLER.
CARRIER FOR THRASHING-MACHINES.

103,087, GEO. O. SAMPSON.

STEAM-GENERATORS.

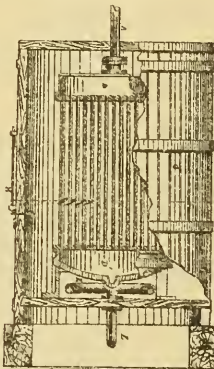
103,088, JOHN SATTAZAHN, JR.
GRUBBING-IMPLEMENT.

103,089, WILLIAM SCHRIER.

COMPOSITION METAL OR ALLOY

103,090. C. ROSSWOG.

MANUFACTURE OF SUGAR.

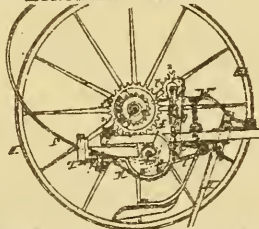


103,091, CHARLES A. SEELY.

MANUFACTURE OF EXTRACT OF HOPS.

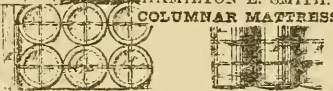
103,092, JOHN S. SHRAWDER.

HORSE HAY-RAKES.

103,093, WM. E. SIMONDS STUDS FOR
FASTENING NECK-TIES TO COLLARS.

103,094, FRED. J. SLADE.

MANUFACTURE OF STEEL

103,095 GEORGE HAND SMITH. CEMENT
FOR PAVEMENTS, WALES, ROOFS.103,096, HAMILTON E. SMITH.
COLUMNAR MATTRESS.

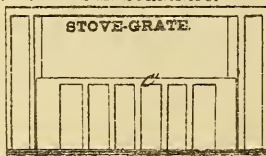
103,097,

W. B. SNOW. SLEEPING-CAR BERTHS.

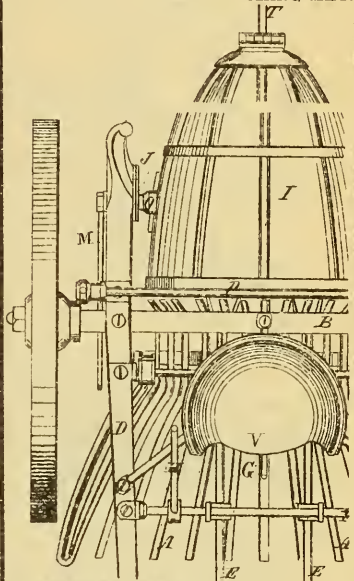


103,098, REUBEN SOLIDAY.

STOVE-GRATE.

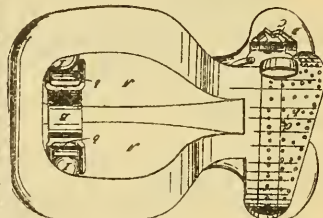


103,099, ZATTEE CUSHING STEELE.

MACHINES FOR RAKING AND
COCKING HAY.103,100, SCOTT STEWART. MACHINES
FOR RAKING AND COCKING HAY.

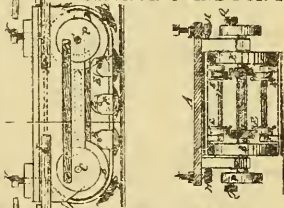
103,101, JACOB STRAUS.

SIDE-SADDLE TREES.

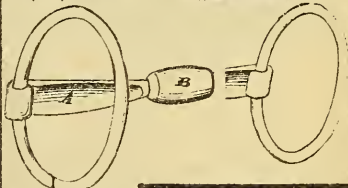


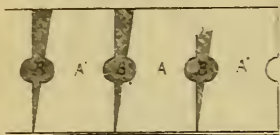
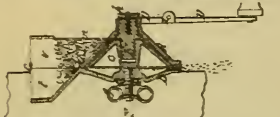
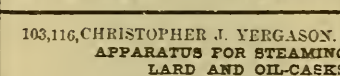
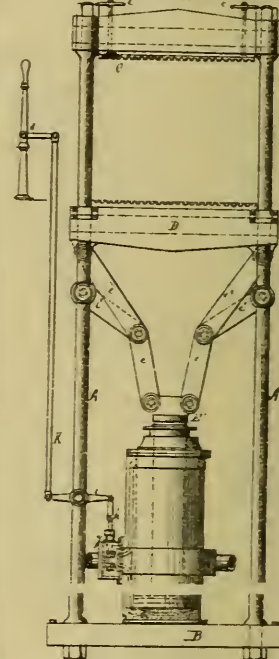
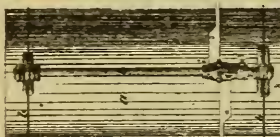
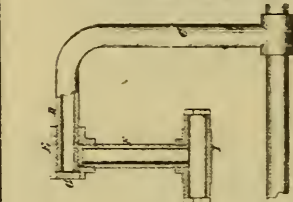
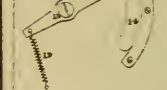
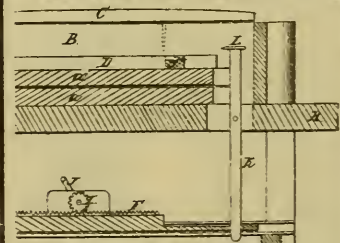
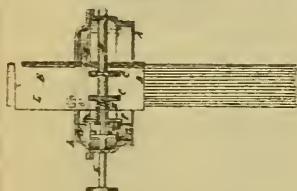
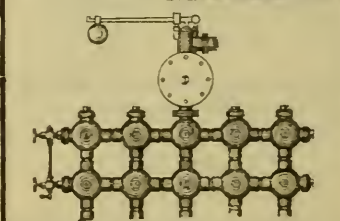
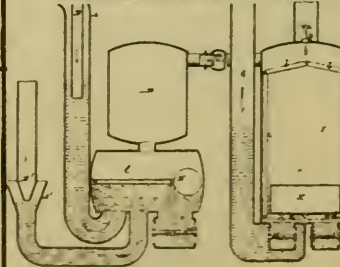
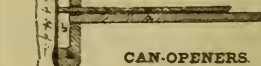
103,102, STEPHEN S. STUNTZ.

TRACTION-MACHINE FOR PLOWS.



103,103, JOHN A. SWAN. BRIDLE-BIT.

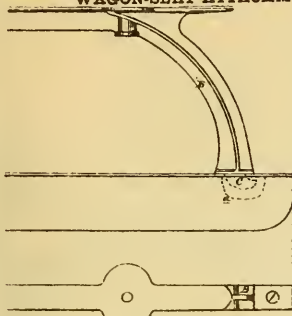
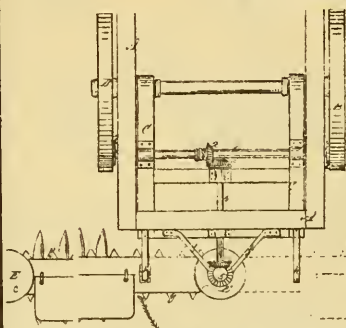
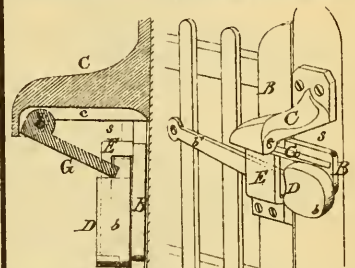
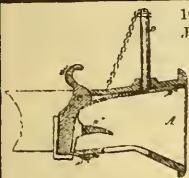
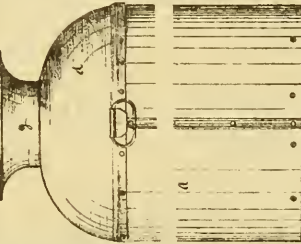
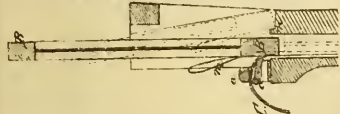
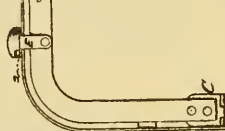
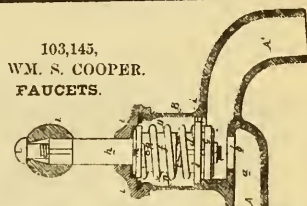
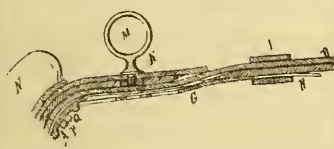
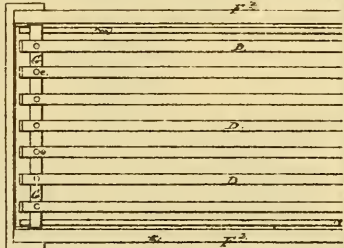
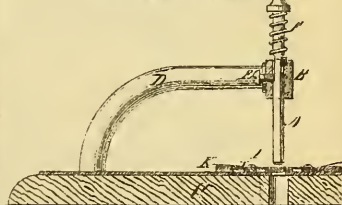
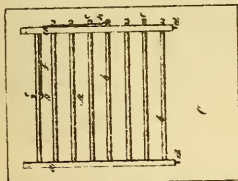
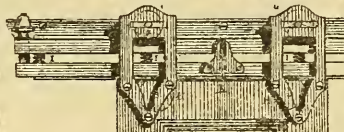
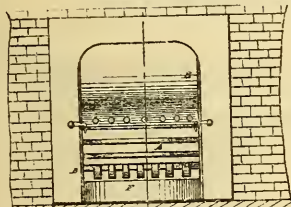
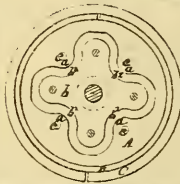
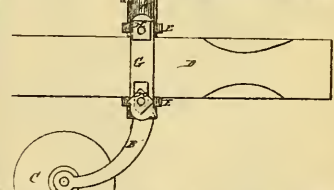
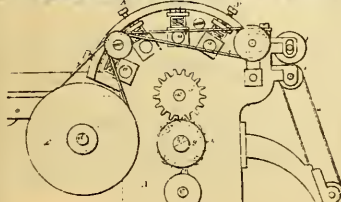
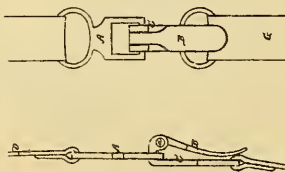
103,104, HIRAM THAYER.
MODE OF MAKING BOOTS.

103,105, A. VAN CAMP. PAVEMENTS.
M. M. HODGMAN.103,113, PHINEAS M. WITHINGTON.
KNIFE-SHARPENERS103,122, ROBERT BRECKENRIDGE BAKER.
INSULATORS FOR
TELEGRAPHIC WIRE.103,114, MILEDEN WONSER.
CARRIAGE-WHEEL103,106, A. J. VANDEGRIFT.
GEO. W. M. VANDEGRIFT.
GRINDING-MILLS.103,115, JAMES WOODRUFF.
FREDK. BOYD.
PREPARATION OF FIBROUS MATERIAL103,123, AUGUSTINE BALDWIN.
STEAM COTTON-PRESS.103,107, HORACE VANSANDS.
BRACKET FOR
SUPPORTING STOVE-PIPE SHELVES.103,116, CHRISTOPHER J. YERGASON.
APPARATUS FOR STEAMING
LARD AND OIL-CASKS.103,117, JOB ABBOTT.
ALARM-TELEGRAPH
SIGNAL-BOXES103,118, JOHN J. ADAIR
WHIFFLETREE.103,109, JAMES WEBSTER.
MANUFACTURE AND PURIFYING
OF IRON.103,119, JNO. WESTLEY ALESWORTH.
MACHINES FOR JOINTING STAVES.103,110, WM. H. WEEKS. AUTOMATIC
LIGHTING-WICKS FOR LAMPS.103,111, GEO. A. WELLS
BOXES FOR TRANSPORTING EGGS.103,120, D. AMSDELL.
STEAM-GENERATORS103,112, PHILANDER WILBOR.
WASHING-MACHINE103,121, B. T. BABBITT.
AIR-COMPRESSING APPARATUS.103,125, ABEL BARKER.
CAN-OPENERS.103,126, C. BARKER
DOOR FOR RAILWAY BOX CARS103,127, APPARATUS FOR LIGHTING GAS
BY ELECTRICITY
W. W. BATCHELDER.

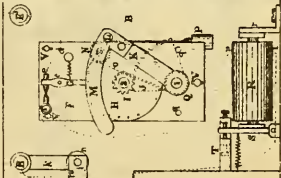
103,128, ALMA BEDFORD.

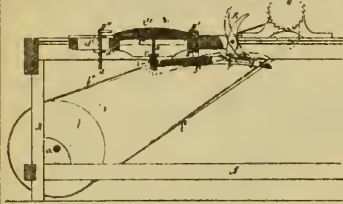
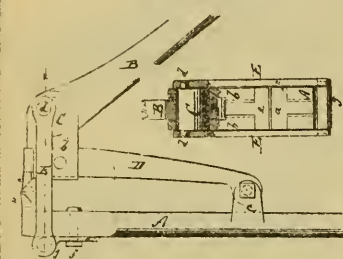
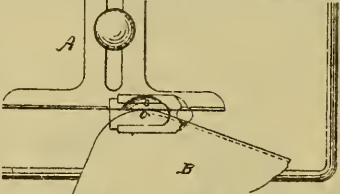


HARNES-BUCKLE

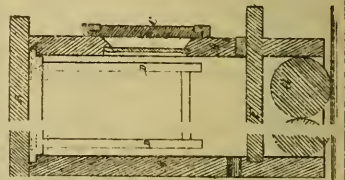
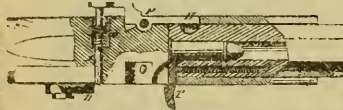
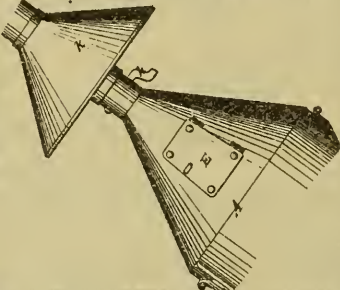
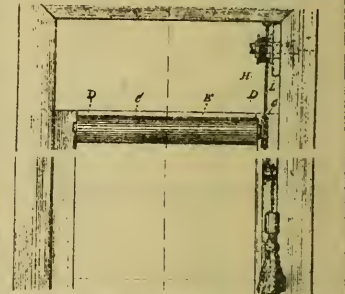
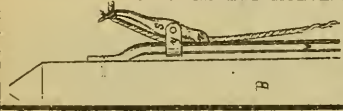
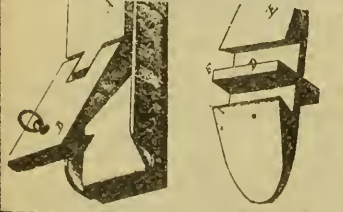
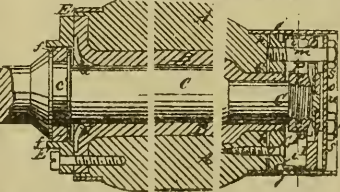
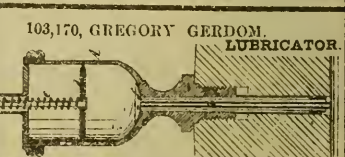
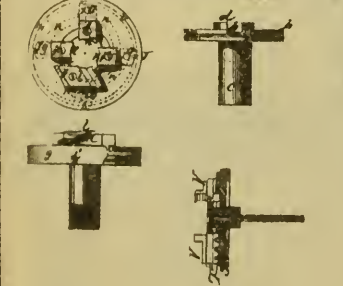
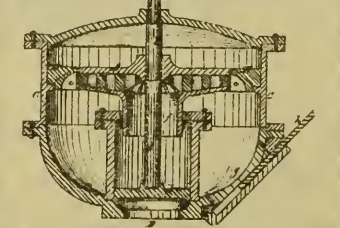
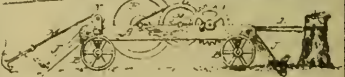
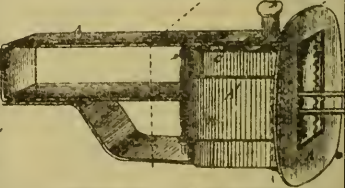
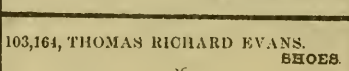
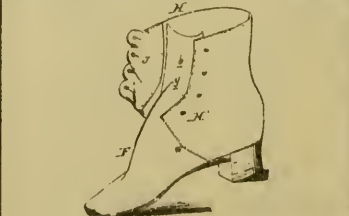
103,129, WILLIAM BEERS.
WAGON-SEAT ATTACHMENT.103,136, CLARK H. CHARLESWORTH.
JOSEPH H. SHORT.
HARVESTERS103,143, HENRY CLYMO.
LATCHES FOR GATES.103,130, JAMES BLAKENEY.
RAILWAY-CAR
COUPLING.103,137, CHAS. L. CAMP. MILK-CANS.
JOHN H. CHAPPEL.103,131, JOHN H. BLOODGOOD. ROLLER
FOR SASH-STRAP FOR CARRIAGES.103,144, FRIEDRICH COELLER.
TRAVELING-BAG
FASTENER.103,145, WM. S. COOPER.
FAUCETS.103,132, VALENTIN BORST.
HARNESS SADDLES.103,138, GEO. O. CAPEN.
SPRING BED-BOTTOM.103,146, JOHN F. CORY.
JACOB H. BROWN.
HAND-STAMPS FOR CUTTING
CHECKS, BONDS, &c.103,133, HARVEY BOSWORTH.
CLOTHES-DRIER.103,139, JACOB CAPRON.
SLIDING-DOOR APPARATUS.103,147, JOHN CROWLEY.
BEATERS FOR THRASHING-MACHINES103,134, ADOLPH BRASE.
LEMUEL SALLADEY.
GRATE FOR FIRE-PLACES.103,140, JOHN CLARK.
PISTON-PACKING.103,148, GEO. CURKENDALL.
FLOW-COLTERS.103,135, E. BRANIER.
MACHINE FOR BREAKING, SCUTCHING,
AND SEPARATING FIBROUS MATERIAL103,141, RICHARD T. CLARKE.
PROCESS OF PURIFYING LINSEED-OIL.103,142, ROBERT CLINGEN.
FLAP-FASTENER FOR THE
DASHER OF CARRIAGES.

103,149, H. T. CUSHMAN. ERASERS.

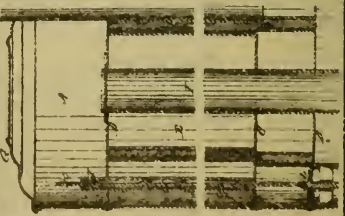
103,150, S. D. CUSHMAN. SIGNAL-BOXES
FOR FIRE-ALARM TELEGRAPHS

103,151, AMOS CUTTER.
STAVE-JOINTING MACHINES103,158, LOYAL M. DODDRIDGE.
MILK-PAILS WITH STRAINERS
ATTACHED.103,165, FREDERIC G. FORD.
FURNITURE-CASTERS.103,152, LEVI DANIELS.
BOLT-CUTTING DEVICE103,159, WILLIAM C. DODGE.
GUIDE FOR SEWING-MACHINE

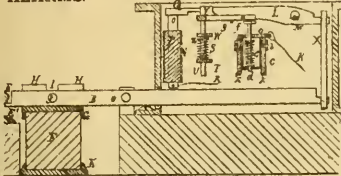
103,166, THOMAS A. FRANKS. BEE-HIVES

103,153, A. C. L. DAVIS.
HAND CORN-PLANTERS.103,154, JARVIS DAVIS.
BREECH-LOADING FIRE-ARMS.103,160, WALTER DUNKERLY.
FORGE-BONNET.103,167, GEORGE PLINY FULLER.
CURTAIN-FIXTURE.103,168, JEFFERSON L. FULTON.
JULIUS BRACE.
BITUMINOUS ROCK PAVEMENT103,155, JOSEPH DAVIS.
CLOTHES-LINE HOLDER.103,156, THOMAS J. DELANY
RAILWAY CAR-COUPLING.103,161, GEO. B. DURKEE.
AXLE-BOXES FOR CARRIAGES.103,169, JEFFERSON L. FULTON.
JULIUS BRACE.
MATERIAL FOR ROOFING AND PAVING103,157, JOHN DEMING.
SPOKE-TENONING AND HUB-BORING
MACHINES.103,162, WM. T. DUVAL.
WATER-WHEEL103,171, CHAS. GERNES.
JOHN H. GRUENHAGEN.
STUMP-EXTRACTOR.103,172, WM. F. GRASSLER.
RAILWAY CAR-COUPLING.103,163, GEORGE W. ELDRIDGE.
FIRE-KINDLING.103,164, THOMAS RICHARD EVANS.
SHOES.

103,173, J. M. HACKNEY. FILTERS.



103,174. T. S. HALL.
ELECTRO MAGNETIC RAILROAD
ALARMS.



103,175. RICHARD B. HAMEL.
JAMES B. HOLDEN.
MECHANICAL MOVEMENT.

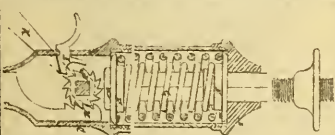


103,176. CHARLES HARKINSON.
RADIATOR FOR HEATING-FURNACES.

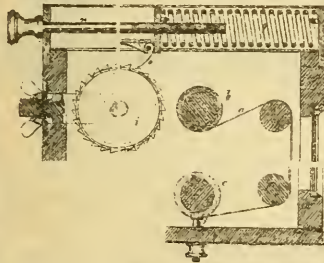


103,177. SUSPENDED.

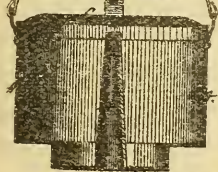
103,178. BAYLIES HATHAWAY. SPRING-
BALANCE STOP FOR SAFETY-VALVES



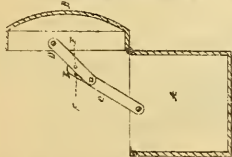
103,179. W. HEBDON. STATION.
INDICATOR FOR RAILROAD CARS.



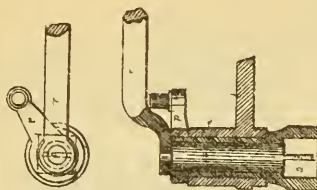
103,180. CHARLES W. HERMANCE.
CULINARY VESSEL.



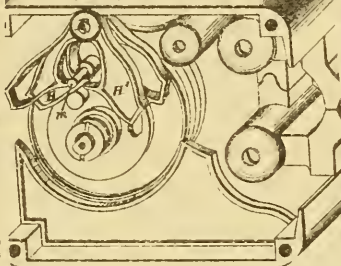
103,181. LOUIS HILLEBRAND.
STAY FOR TRUNKS.



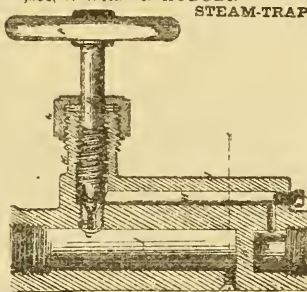
103,182. BINDLOSS H. HILLIAR.
ICE-CREAM FREEZER.



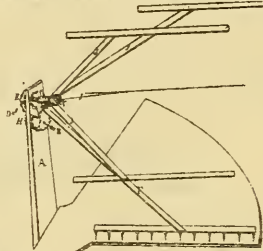
103,183. J. C. HINTZ, JR.
PERMUTATION LOCKS.



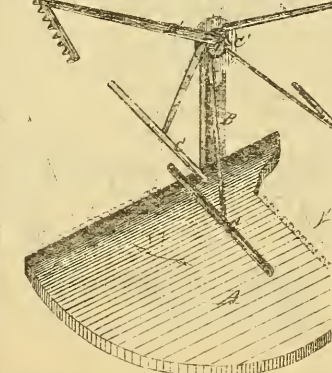
103,184. J. WILSON HODGES.
STEAM-TRAPS.



103,185. PLINY F. HODGES. COMBINED
RAKE AND REEL FOR HARVESTERS.

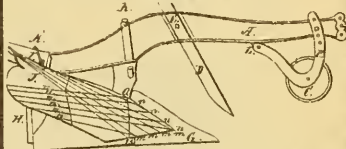


103,186. P. F. HODGES
COMBINED RAKE
AND REEL FOR HARVESTERS.



103,187. FREDERICK HOLBROOK.
JAMES A. HOWE.
JOEL NOURSE.

SWIVEL PLOWS.



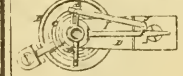
103,188. JOHN W. HOLLINGSWORTH.
METAL-INJECTORS.



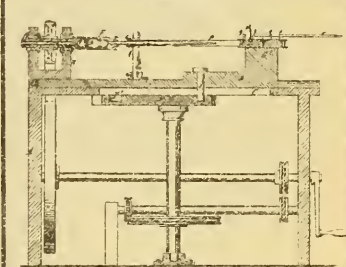
103,189. JOHN W. HOLLINGSWORTH.
ARTIFICIAL TEETH.



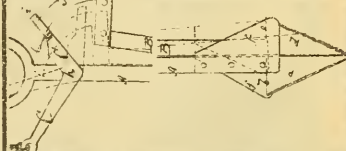
103,190. WILLIAM H. HORTON.
COMPENSATING REGULATOR
FOR WATCHES.



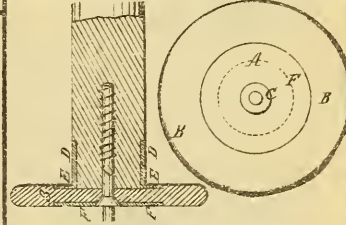
103,191. PH. HUFELAND.
SAND-PAPERING MACHINES.



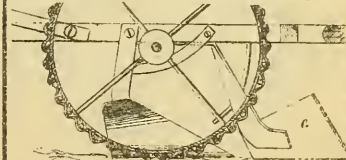
103,192. JOHN W. HULL.
HORSE HAY-FORKS.



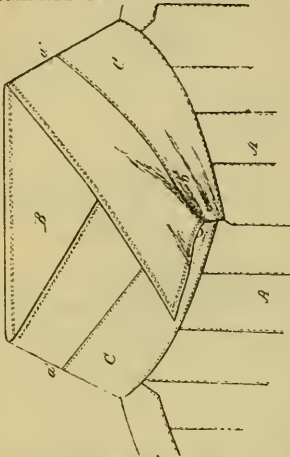
103,193. B. JAMES. JACE-SPOOLS.



103,194. MOSES JOHNSON.
POTATO-DIGGERS.



103,195, JAS. A. JONES.
COMBINED SHIRT AND COLLAR.

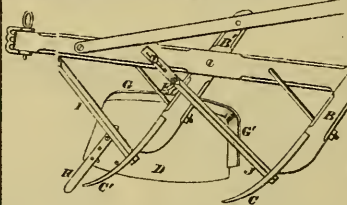


103,201, W. J. KUINS.
NICKEL PLATING.

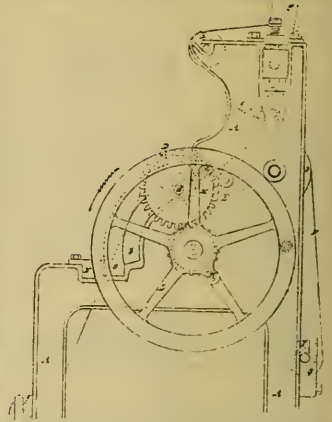
AUTOMATIC RAILWAY-SWITCHES.
LEWIS E. KURTZ.
103,202,



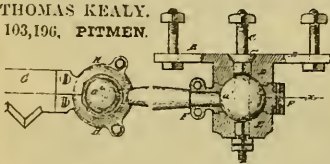
103,203, EDWARD LANNAY.
CLOG-FENDERS AND PULVERIZING
ATTACHMENT FOR SHOVELFLOWS.



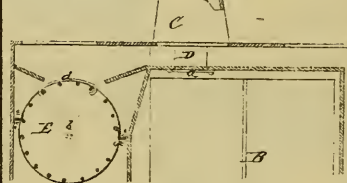
103,209, JNO. LEWTHWAITE.
COATING FABRICS WITH PARKESINE.



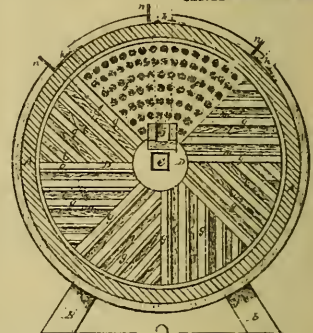
THOMAS KEALY.
103,196, PITMEN.



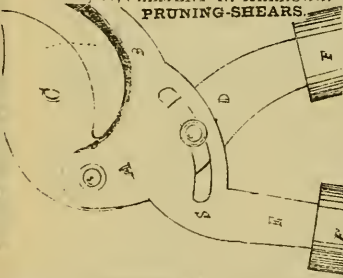
103,204, S. H. LA RUE.
COOKING-STOVES.



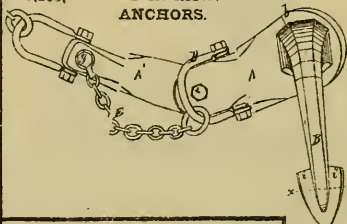
103,210, CHAS. H. LITHGOW.
KNIFE-POLISHER.



103,197, CLEMENT A. KELLOGG.
PRUNING-SHEARS.



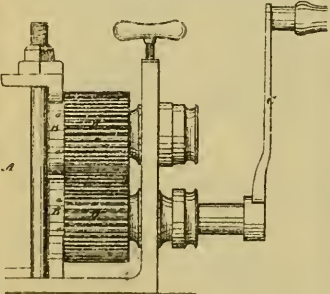
103,205, ALBERT H. LAW.
ANCHORS.



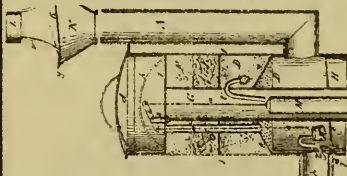
103,211, JAMES M. LOGAN.
MILL-SPINDLE DRIVERS.



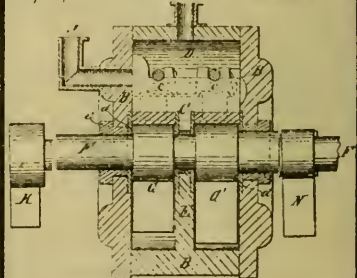
103,198, JOHN L. KENDALL.
R. H. TRESTED.
FABRIC FOR CARPET-LINING. &c



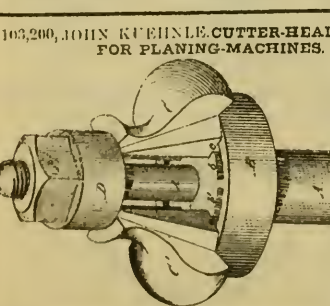
103,206, DR. N. EDWD. LEAMAN.
FILTERS FOR CISTERNS.



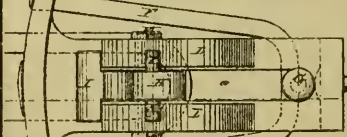
103,212, H. E. LONG. STEAM-ENGINE.



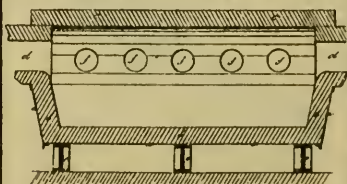
103,199, SAMUEL KINGAN
MANUFACTURE OF ROOFING-FELT.



103,207, DR. N. EDWD. LEAMAN.
CAR-COUPLING.



103,208, GEORG LEUFFGEN.
TANK-FURNACE FOR MAKING GLASS.



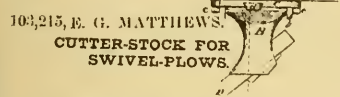
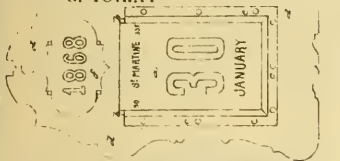
103,213, WM. D. LUDLOW.
LAMP-BURNERS.



103,211, ALFRED MARR.

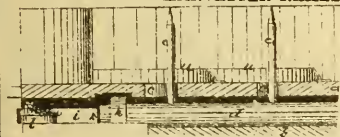
VARNISH FOR SURFACING RAILWAY
HEADS, DRAWING AND SPINNING-
FRAMES

103,215, E. G. MATTHEWS.

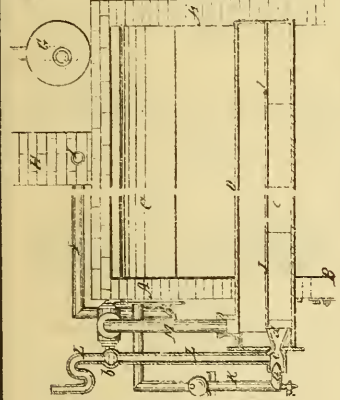
CUTTER-STOCK FOR
SWIVEL-PLOWS.103,216, VVE A. MAURIN. CALENDARS
G. TOIRAY

103,217, EDWIN R. McCALL.

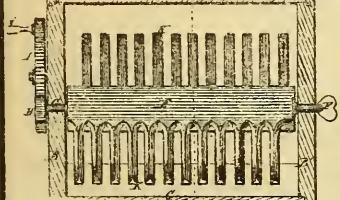
HARVESTER RAKES.



103,218, E. P. MCCARTHY.

MANUFACTURE OF ILLUMINATING
GAS.103,219, THOS. B. McCONAUGHEY.
JAMES ADAMS.

CHURN-DASHERS.



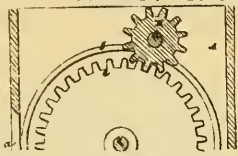
103,220, JACOB W. McCLURE.

NUT-LOCKS



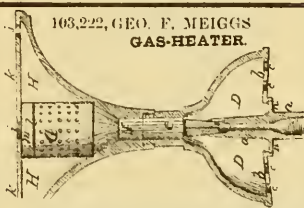
103,221, WM. H. McNARY.

COUNTING-REGISTER



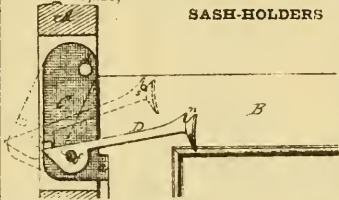
103,222, GEO. F. MEIGGS

GAS-HEATER.



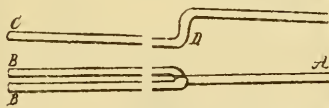
103,223, N. J. MEIGS.

SASH-HOLDERS



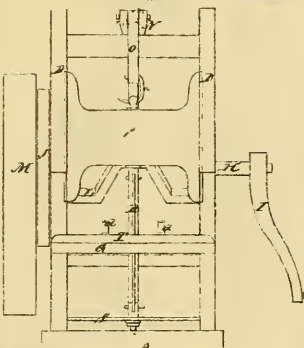
103,224, SARAH E. MERSELAU.

FLUTING-TONGS



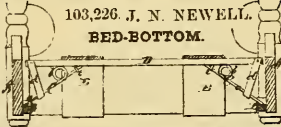
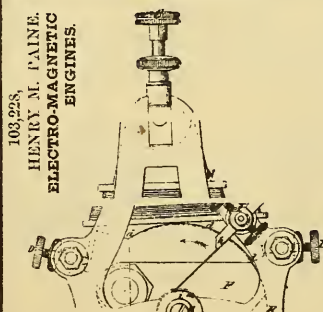
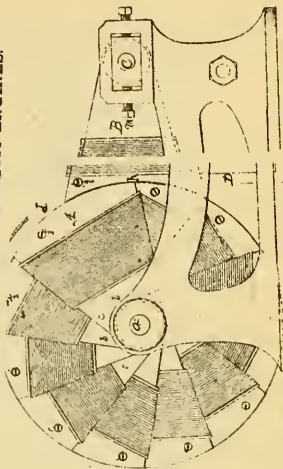
103,225, P. ANDREW MYERS.

SAWING-MACHINES.



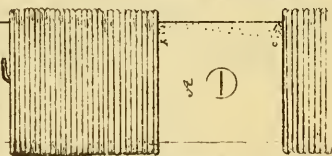
103,226, J. N. NEWELL.

BED-BOTTOM.

103,227, GEO. J. PACK PREPARING
GOLD FOR DENTISTS' USE.103,228,
HENRY M. PAINE
ELECTRO-MAGNETIC
ENGINES.103,229, HENRY M. PAINE.
MAGNETIC ENGINES.

103,230, HENRY MONROE PAINE.

ELECTRO-MAGNETS



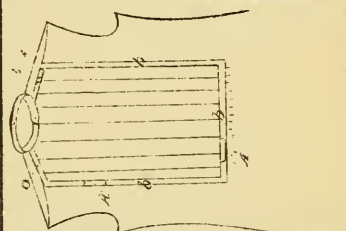
103,231, HENRY M. PAINE.

CONSTRUCTION OF ELECTRO-MAGNETS

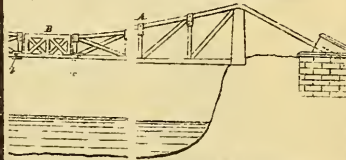
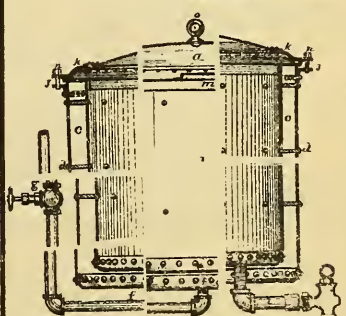


103,232, MOSES PALMER, JR.

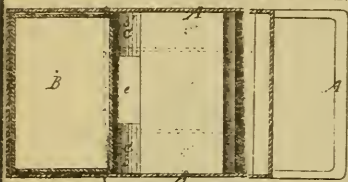
SHIRT-BOSOMS



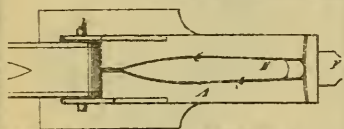
103,233, CHAS. H. PARKER. BRIDGES.

103,234, JAS. WILLARD PATTERSON.
RENDERING LARD.

103,235, ALEXANDER G. PATTON.
COOKING-STOVE.



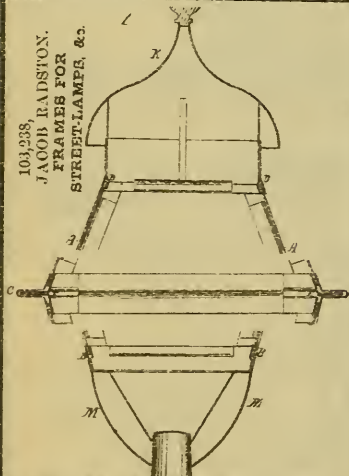
103,236, ADOLPH PEARL.
MANUFACTURE
OF BUNCHES FOR CIGARS.



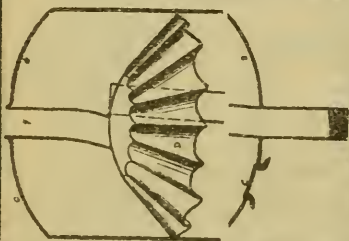
103,237, JULIUS P. PFAU.
RAILWAY-STATION INDICATOR.



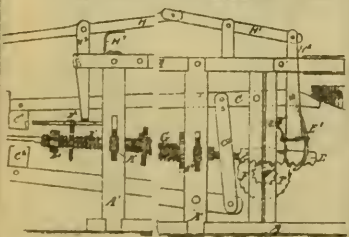
103,238,
JACOB RADSTON,
FRAMES FOR
STREET-LAMPS, &c.



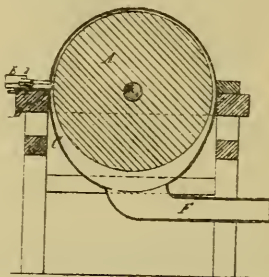
103,239, JOHN EDWARD ROBINSON.
SAND AND AIR-CHAMBER FOR
TUBULAR WELLS



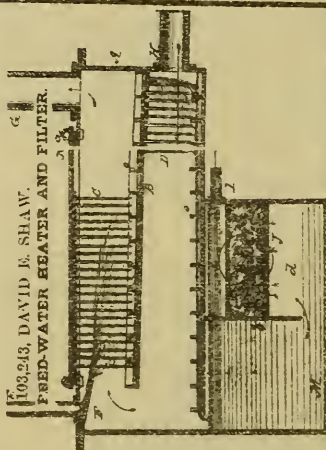
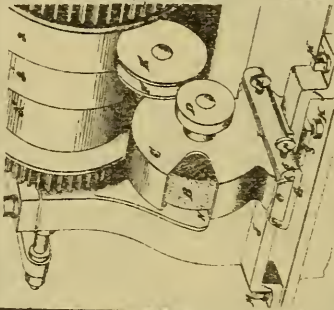
103,240, EDWARD B. ROLLINS.
MACHINE FOR MAKING FILES.



103,241, PHILIP SCHRAG. MACHINES
PH. HUFELAND.
FOR CUTTING OFF LEAD-PENCILS

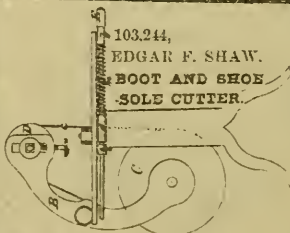


103,242, JAMES SHAUGHNESSY, TOOL-
GRINDING ATTACHMENT TO LATHES.

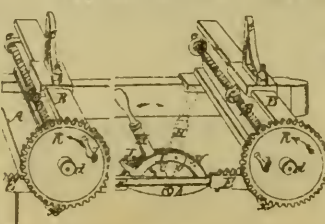


103,243, DAVID E. SHAW.
FEED-WATER HEATER AND FILTER.

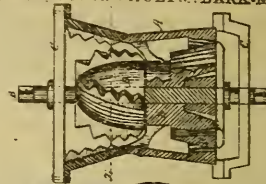
103,244,
EDGAR F. SHAW.
BOOT AND SHOE
SOLE CUTTER.



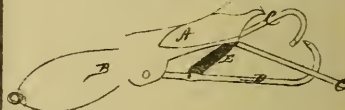
103,245, ANDREW SHEARON.
HEAD-BLOCKS FOR SAW-MILLS.



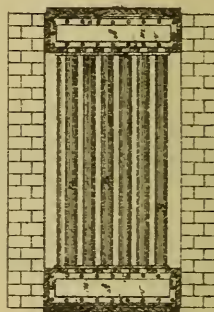
103,246, ROBT. H. SHULTIS, BARK-MILLS.



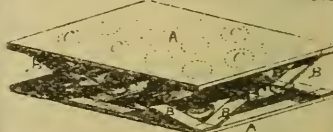
103,247, THOMAS SIMPSON.
LID AND PLATE-LIFTER
AND POT-HOOK.



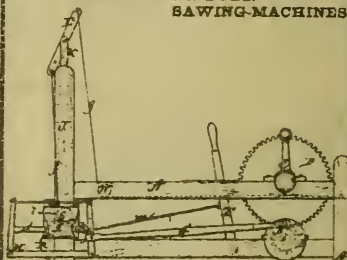
103,248, WILLIAM P. SKIFFINGTON.
STEAM-GENERATORS.



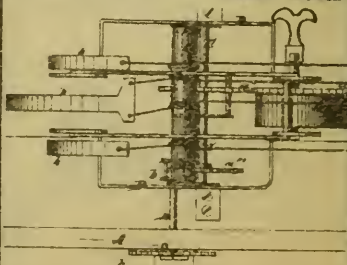
103,249,
CHARLES I. SKOW.
SPRING-BED BOTTOM.



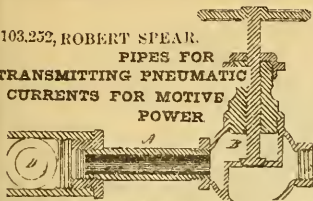
103,250, OLIVER C. SMITH.
THEODORES. DOLL.
SAWING-MACHINES.



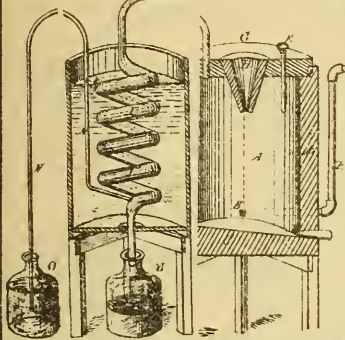
103,251, THOMAS H. SMITH.
TIME-ALARMS.



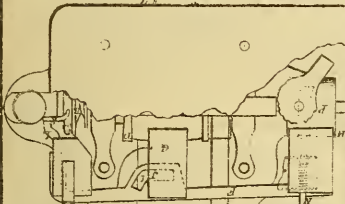
103,252, ROBERT SPEAR.
PIPES FOR
TRANSMITTING PNEUMATIC
CURRENTS FOR MOTIVE
POWER



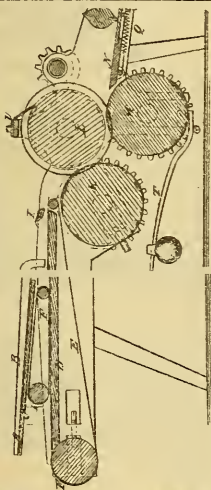
103,253, HERMANN STIEREN, M. D.
WILLIAM A. NISBET.
APPARATUS FOR THE
PRODUCTION OF BROMINE.



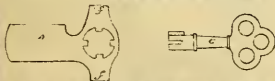
103,254, LEVI W. STOCKWELL.
SEWING-MACHINE.



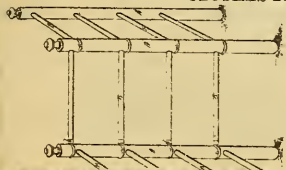
103,255, J. W. STONE.
TOBACCO-ROLLING MACHINE.



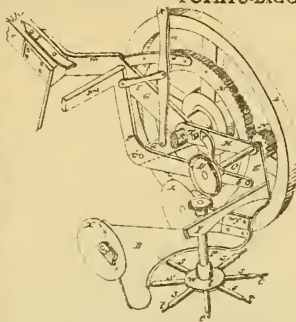
103,256, HENRY R. TOWNE.
KEY-HOLE GUARD-LOCKS.



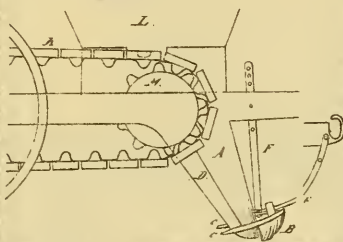
103,257, JOHN NAPOLEON VALLEY.
CLOTHES-DRIER.



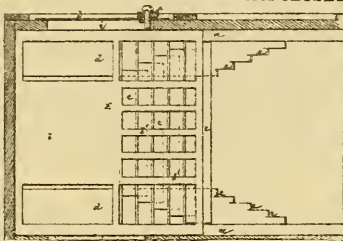
103,258, CORNELIUS VAN DERZEE.
BENJAMIN REAMER.
POTATO-DIGGERS.



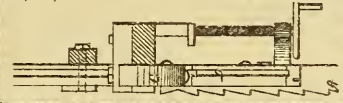
103,259, W. E. VERNON.
CORN PLANTER.



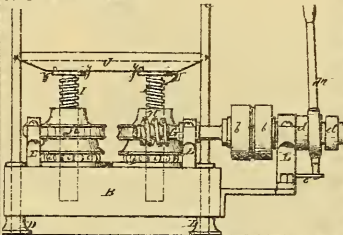
103,260, CHAS. A. WAKEFIELD.
EARTH-CLOSET.



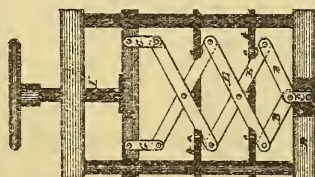
103,261, CHARLES WARREN. SAW-MILLS.



103,262, C. H. WESTON AND J. DENNIS.
CLOTH PRESS.



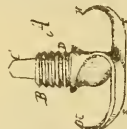
103,263, CHARLES H. WESTON.
JOHN DENNIS.
CLOTH-PRESS.



103,264, LEWIS WHITEHEAD.
HARNESS.

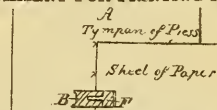


103,265, EDWIN F. WHITNEY.
REUBEN JONES.
BORING-TOOL.

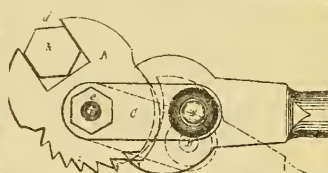


103,266, CHARLES D. WILLIAMS.
ARTIFICIAL FUEL.

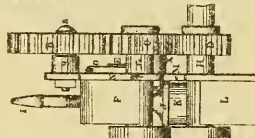
103,267, HENRY WILLSON. EMBOSSEING-
ATTACHMENT FOR PRINTING-PRESSES.



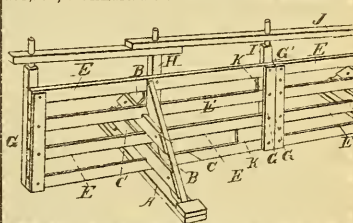
103,268, WALTER F. WOLFKIEL.
WRENCHES



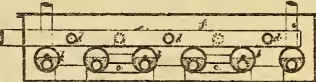
103,269, GEORGE C. WRIGHT.
GEARING FOR CLOTHES-WRINGERS.



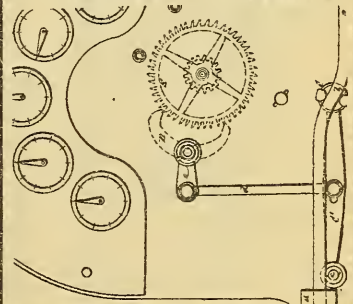
103,270, WILLIAM P. WRIGHT. FENCES.



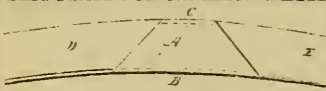
103,271, HOMER T. VARYAN.
APPARATUS FOR REFRIGERATING
AND MAKING ICE.



103,272, WILLIAM YORKE.
REGISTER FOR ODOMETERS. &c.



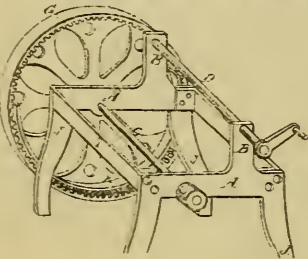
103.273. F. B. MORSE.
FELLY-PLATE FOR CARRIAGE-WHEELS.



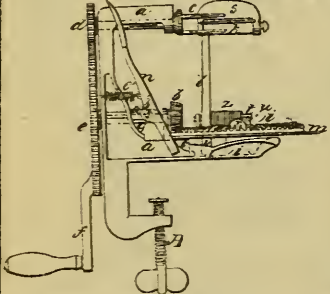
103.274 F. B. MORSE.
KING-BOLT SOCKET FOR CARRIAGES.



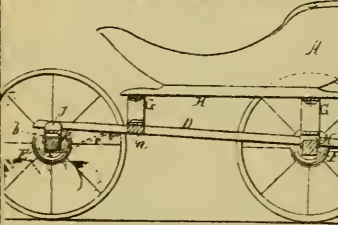
3,969. DANIEL ARMSTRONG. MACHINES
FOR MAKING WROUGHT NAILS



3,970. ASAHEL G. BATCHELDER.
APPLE-PARER.



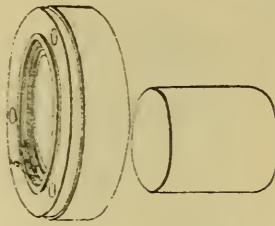
3,971. B. P. CRANDALL.
CHILDREN'S CARRIAGES.



3,972. WM. E. CRANDALL.
CHILDREN'S CARRIAGES



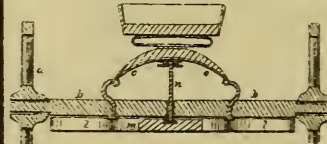
3,973. WM. H. HALSEY.
MOLDING WATCH-CASES, LOCKETS,
AND OTHER ARTICLES, FROM
HARD RUBBER.



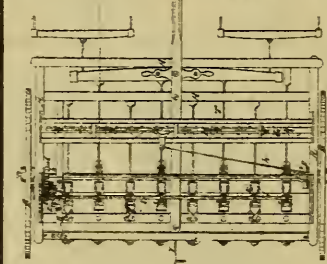
3,974 WM. H. HALSEY. NEW ARTICLES
OF MANUFACTURE
FROM HARD RUBBER



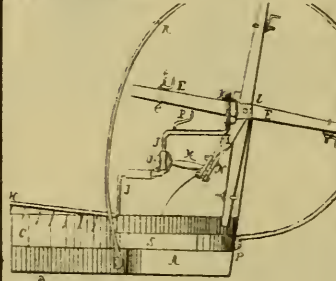
3,975. L. M. HAM. WAGONS
J. H. DODGE.



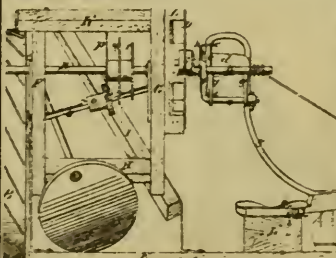
3,976. JOSEPH INGELS. GRAIN-DRILLS



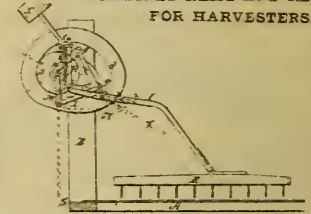
3,977. C. H. AND L. J. MCCORMICK.
HARVESTER.



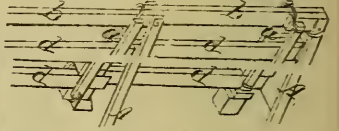
3,978. C. H. AND L. J. MCCORMICK
HARVESTER RAKE



3,979. MCCLINTOCK YOUNG, JR.
C. H. MCCORMICK.
L. J. MCCORMICK.
COMBINED RAKE AND REEL
FOR HARVESTERS.



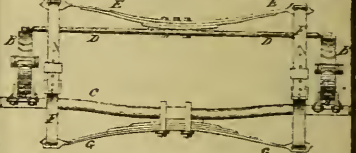
3,980. CHARLES W. REEDER
FARM-FENCE.



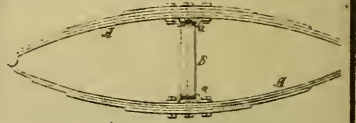
3,981 WM. G. SCHMIDLIN,
J. W. DRISCOLL.
REFLECTORS.



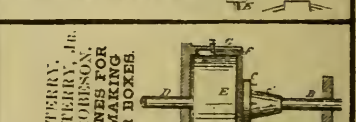
3,982. CHARLES SHEA.
EQUILIBRIUM SPRING.



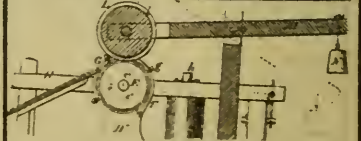
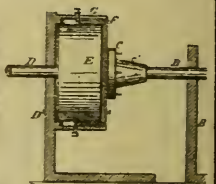
3,983. CHARLES SHEA.
COMPENSATING SPRING.



3,984.
CHARLES SHEA
COMPENSATING OR
EQUILIBRIUM SPRINGS.



3,985
SILAS B. TERRY.
SILAS B. TERRY, JR.
DAN. S. TERRYSON.
MACHINES FOR
MAKING
PAPER BOXES.



3,986. E. W. VAILL. FOLDING CHAIR



ILLUSTRATIONS OF PATENTS

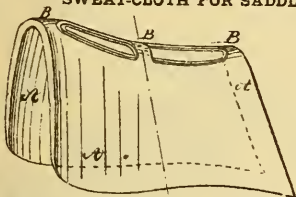
ISSUED FROM

THE UNITED STATES PATENT OFFICE

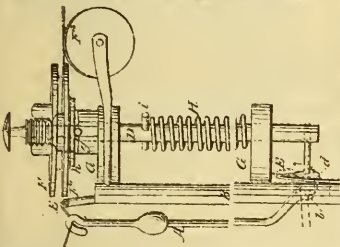
MAY 24, 1870.

103,275, STEPHEN M. ALLEN.
PREPARING THE FIBER OF RAMIE
AND OTHER PLANTS.

103,276, RICHD. ALIISON.
SWEAT-CLOTH FOR SADDLES.



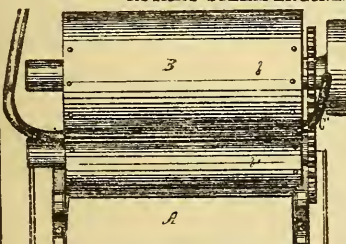
103,277, JAMES ARNOLD.
SPOOLING AND LIKE MA-CHINES.
STOPPING MECHANISM FOR DOUBLING



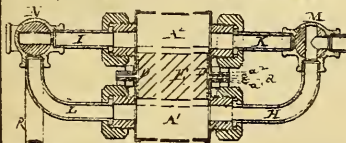
103,278, J. B. BAILEY.
HANDLES FOR KNIVES.



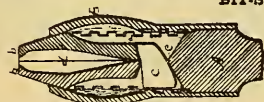
103,279, JOHN W. BAILEY.
ROTARY STEAM-ENGINE.



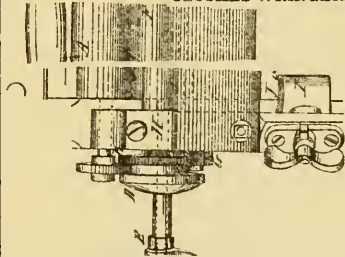
103,280, THOMAS BARROWS. FILTERS.



103,281, HARRY S. BARTHOLOMEW.
BIT-STOCKS.



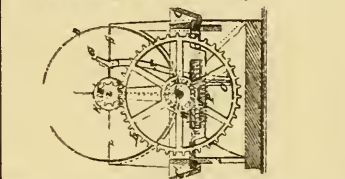
103,282, ELBRIDGE G. W. BARTLETT.
CLOTHES-WRINGER.



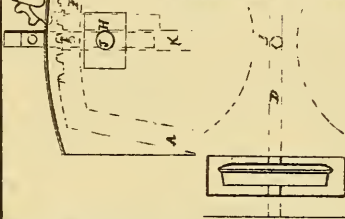
103,283, WM. H. BELL.
DEVICE FOR
HITCHING HORSES.



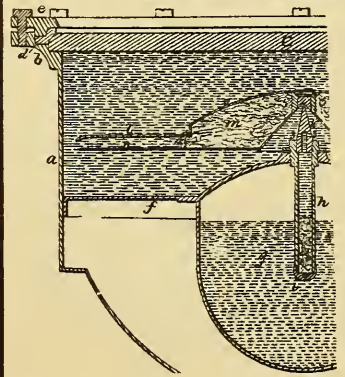
103,284, GEORGE W. BENNETT.
APPLE-PARER, CUTTER, AND CORER.



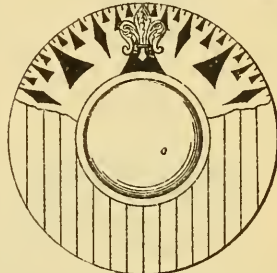
103,285, JOHN BERRY.
STREET-CAR TRUCKS.



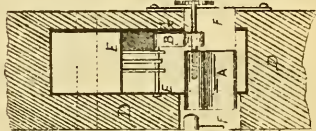
103,286, JOHN BLISS.
GEO. H. BLISS.
MARINERS' COMPASSES.



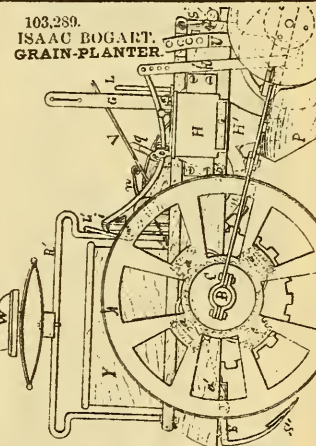
103,287, JOHN BLISS.
GEO. H. BLISS.
MARINERS' COMPASSES



103,288, JAMES F. BODTKER.
KEY-HOLE GUARD



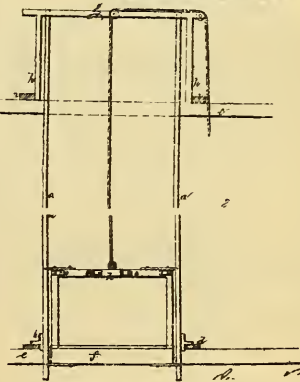
103,289,
ISAAC BOGART.
GRAIN-PLANTER.



103,290, JAMES BOWKER.
PAINT FOR SHIPS' BOTTOMS. &c.

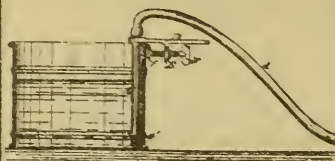
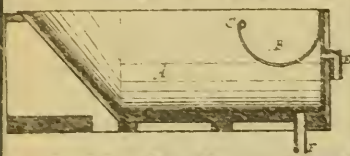
103,291, J. BOWKER.
VARNISH FOR TIN WARE.

103,292, GEO. W. BROWN.
HOISTING APPARATUS.



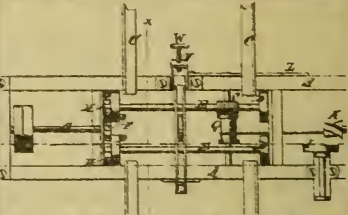
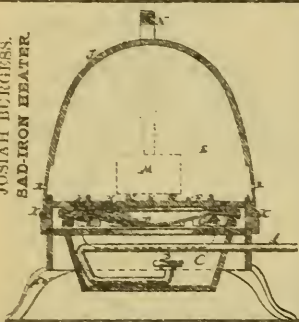
103,293, A. C. BROWNELL.

COMBINATION BATH-TUBS.



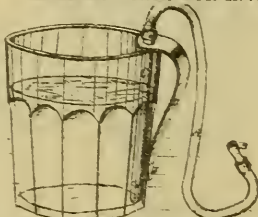
103,303, HENRY DAVIES.

MACHINE FOR CLEANING CAST PIPES.

103,294,
JOSIAH BURGESS,
BAD-IRON HEATER.

103,300, EUGENE CHAPIN.

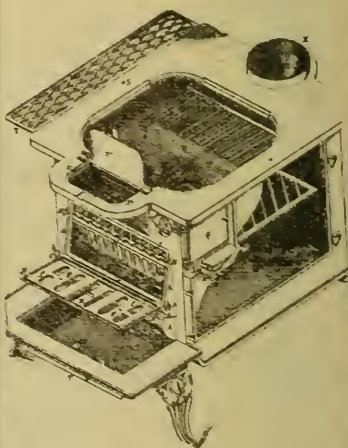
DRINKING-TUBES FOR INVALIDS.



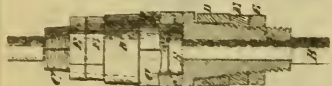
103,306, W. C. DAVIS.

J. W. GARRISON.

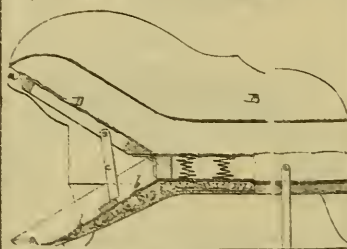
COOKING-STOVE



103,295, FREDERICK BURGHARDT.

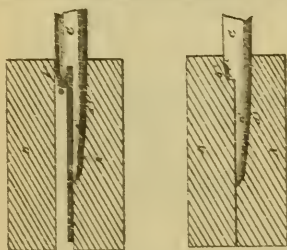
ADJUSTABLE COUPLING FOR
JOURNALS, AXLES.

103,301, WM. H. COLLEY. LOUNGE



103,296, LEANDER BURNS.

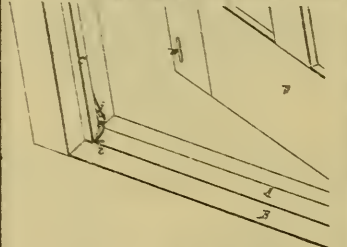
DIE FOR FORMING CARRIAGE-STEPS.



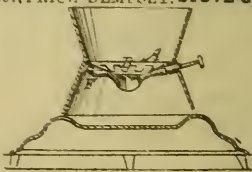
103,302, ERASTUS G. COVEY.

ADDISON BIRCH.

WEATHER-STRIPS FOR DOORS.

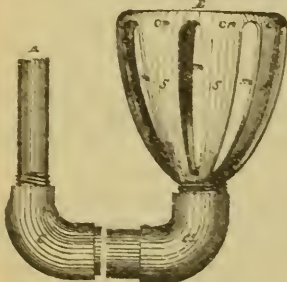


103,307, PRICE DEMPSEY. STOVE-GRADE.

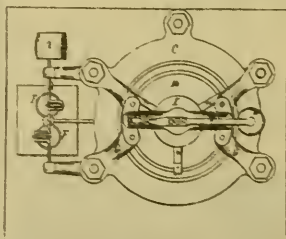


103,297, CALVIN C. BURT.

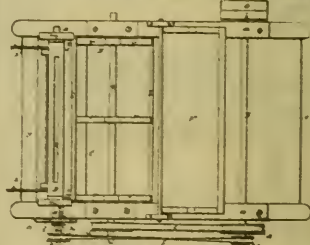
GAS-HEATER



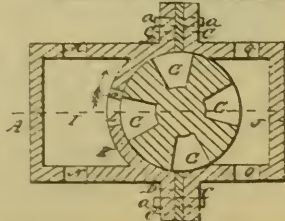
103,303, HARRY A. CROSSLEY.

MACHINES FOR
BEVELING AND CROZING BARRELS.

103,309, GEO. F. DOCKHAM.

MACHINES FOR BURRING
WOOL &c. ON THE SKIN

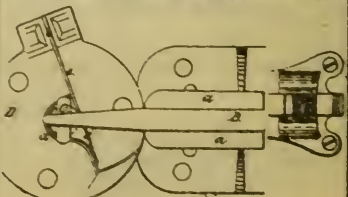
103,298, EBENEZER H. CADY. BARREL.

103,304, H. C. CROWELL. ROTARY
INJECTOR FOR STEAM-BOILERS.

103,310, JAMES DOTY.

ASA H. DOTY.

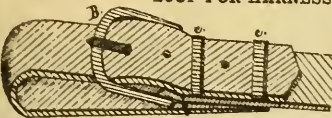
TOWING-HOOKS FOR CANAL-BOATS.



103,299, EUGENE CHAPIN

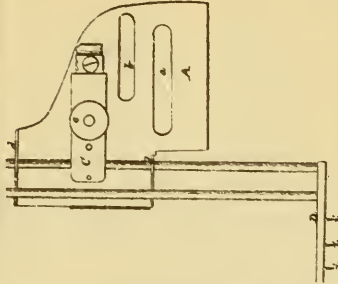
DRINKING-TUBES FOR INVALIDS

103,311, GEORGE L. DU LANEY.
JAMES S. HUSTON.
LOOP FOR HARNESS

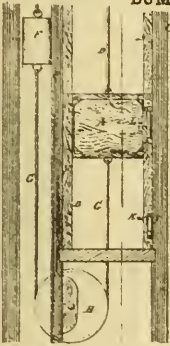


103,312, A. K. EATON.

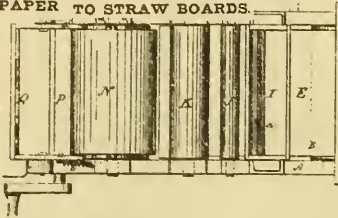
TOOLS AND WHEELS FOR CUTTING
AND POLISHING IRON, STEEL,
AND OTHER MATERIALS



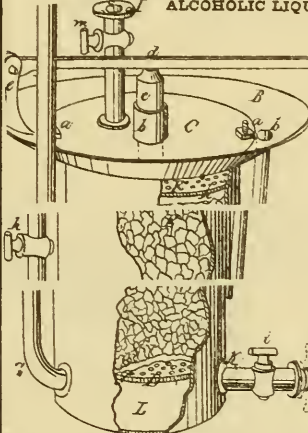
103,313, WILLIAM H. ELLIOTT.
DUMB-WAITER



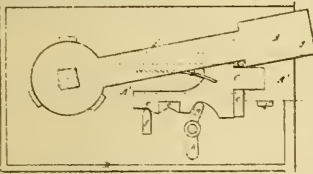
103,319, M. FITZGIBBONS.
MACHINE FOR ATTACHING THIN
PAPER TO STRAW BOARDS.



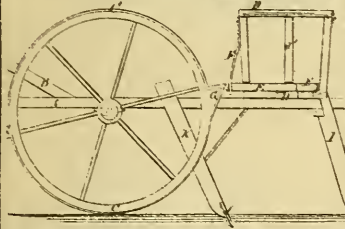
103,320, CH. L. FLEISCHMANN.
APPARATUS FOR RECTIFYING
ALCOHOLIC LIQUORS



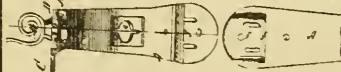
103,314, M. PROCTOR FAVOR. LATCHES



103,315 JOHN G. FETZER.
CORN-PLANTERS.

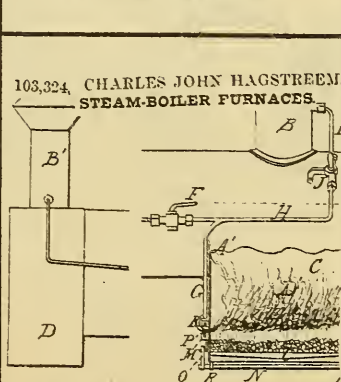


103,321, CONRAD GAHR.
PAD-PLATE FOR HARNESS



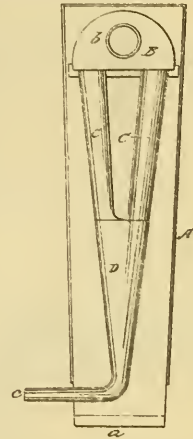
103,322. CANCELED.

103,323, JOHN D. GREY.
MANUFACTURE OF SHEET-IRON.

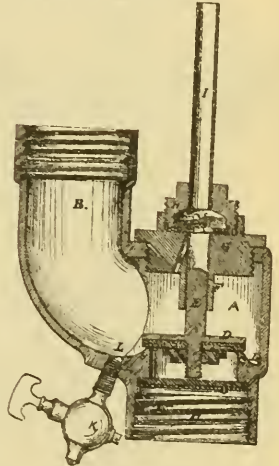


103,324, CHARLES JOHN HAGSTREEM.
STEAM-BOILER FURNACES.

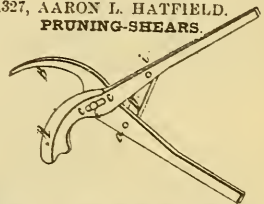
103,325, JOHN G. HANNING.
ANTI-FREEZING DEVICES FOR PUMPS.



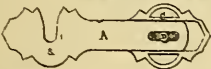
103,326, JOHN HARRISON.
CALEB LOW.
CONDENSER FOR STILLS.



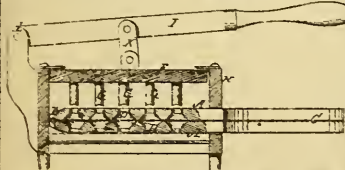
103,327, AARON L. HATFIELD.
PRUNING-SHEARS.



103,316, J. BENTLEY FIELD.
SHUTTER-FASTENERS.

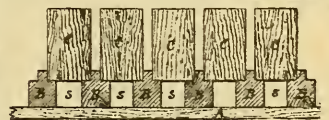


103,317, CHAS. A. FISHER.
CHERRY-STONER

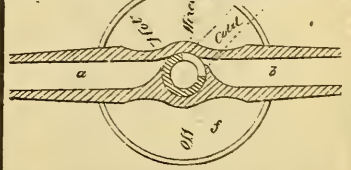


103,318, HART A. FISHER.
GATHERING ATTACHMENT
FOR SEWING-MACHINES.

103,328, HERMAN HAUPT.
WOOD-PAVEMENT.



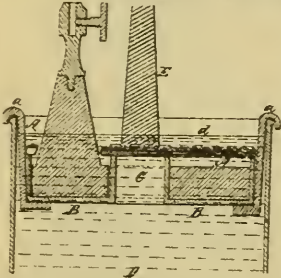
103,329, J. H. G. HAWES.
CONFLUENT COCKS.



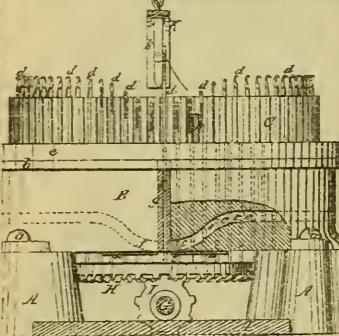
103,330, ALBERT HEUSSER.
BOX-OPENERS.



103,331, JOSEPH HILL.
GALVANIC BATTERIES.



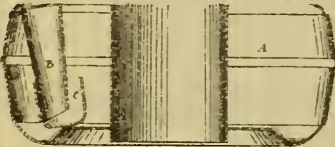
103,332, WARREN S. HILL.
KNITTING-MACHINE.



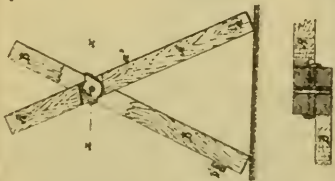
103,333, CHARLES HOLLMANN.
LAYING MALTING-FLOORS.



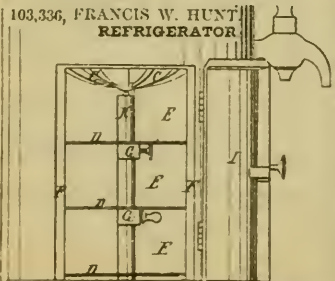
103,334, MARK W. HOUSE.
FEED-TRAP FOR LAMPS.



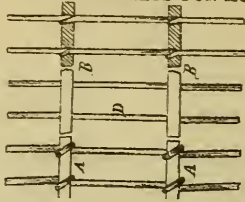
103,335, LEONARD D. HOWARD
SAW-BUCKS.



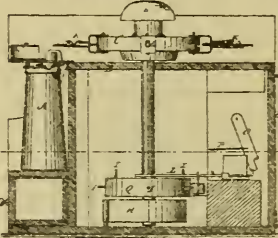
103,336, FRANCIS W. HUNT
REFRIGERATOR.



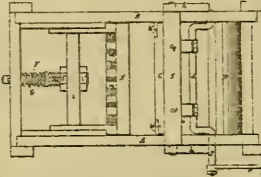
103,337, JAMES S. HUSTON
FLY-NETS FOR HORSES.



103,338, J. B. IRWIN, LAMP-LIGHTER,
AND BURLAR AND FIRE-ALARM.

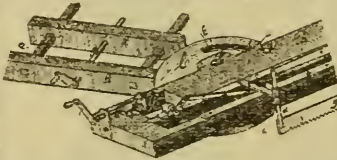


103,339, JOSEPH JOHNSON.
WASHING-MACHINE.

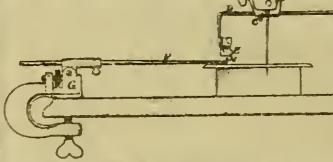


103,340, W. R. JOHNSTON
MANUFACTURE OF CITRIC ACID.

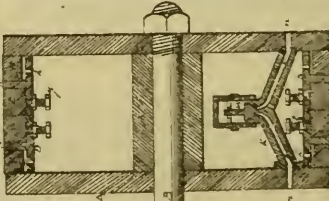
103,341, F. C. JONES, MITER-MACHINE.



103,342, JAMES FRANKLIN KELLOGG.
TUCK-MARKER
FOR SEWING-MACHINE.



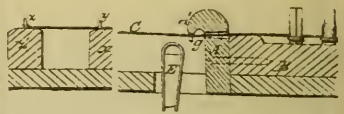
103,343, ORLANDO KELSEY.
PISTON-PACKING.



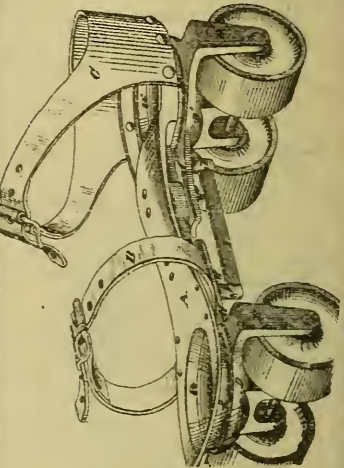
103,344, A. J. KNIGHT.
GUARD FOR CARPET-SWEEPERS.



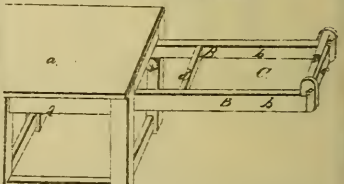
103,345, CHRISTIAN KURTZMANN.
PIANOS.



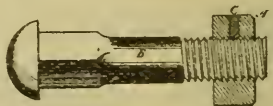
103,346, JOHN LEMMAN.
PARLOR-SKATES.



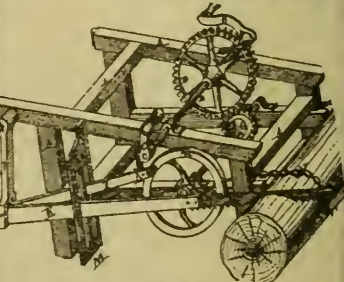
103,347, M. LEPP, SAW-TABLES.



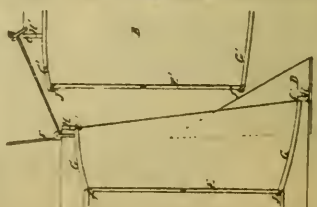
103,348, EDWIN T. LIGON, LOCK-NUT.



103,349, BENJAMIN LITTLE,
JOHN B. LUNDBERG.
SAWING-MACHINE.

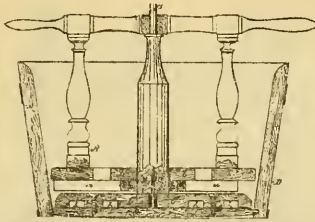
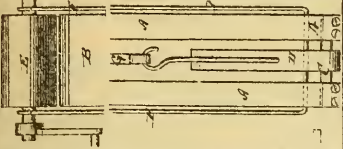


103,350, W. GRAYSON MANN.
TUBULAR SUBMARINE VIADUCTS.

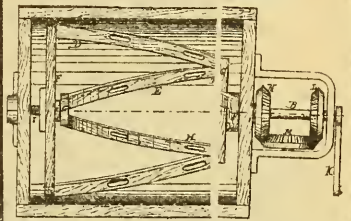


103,351, C. C. MAURICE.

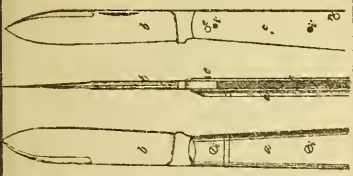
PRINTING-PRESSES.



103,364, W. H. PENNOCK. CHURNS.

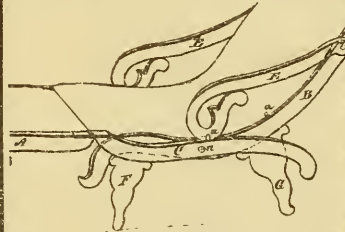
103,352, WM. H. MILLER.
GEO. W. MILLER.

POCKET CUTLERY.

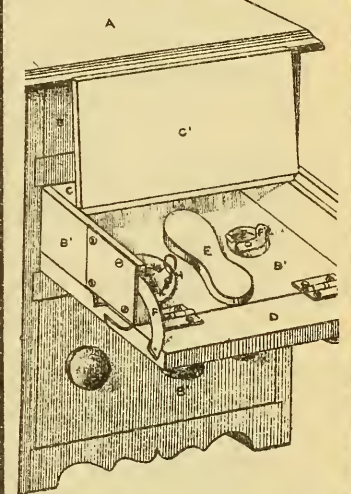


103,358, WILLIAM MORSTATT.

FOLDING CHAIR.

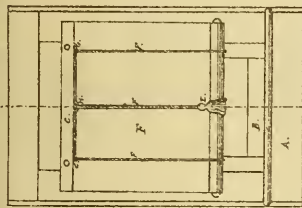


103,365, WILLIAM E. PHELPS.

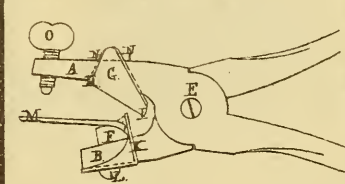
BOOT-BLACKING
ATTACHMENT TO BUREAUS.

103,353, JAMES MONTGOMERY.

CURTAIN-FIXTURE.

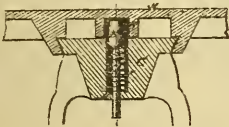


103,359, JAMES MORTON. SAW-SET.



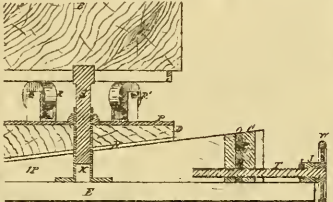
103,354, FRANK MOON.

STOVE-LEG FASTENER.



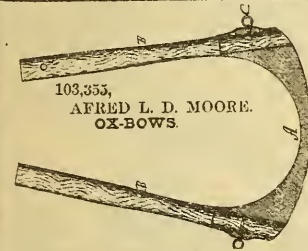
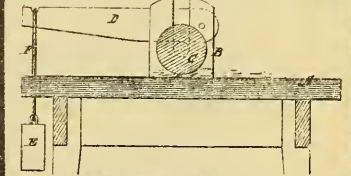
103,360, AUGUST NITTINGER, JR.

MEAT-CUTTER.



103,366, WILLIAM R. POOL.

DOUGH-WORKER.

103,355,
AFRED L. D. MOORE.
OX-BOWS.

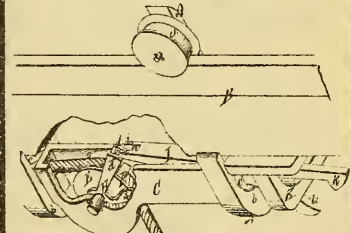
103,361, W. J. OXER.

CUTTER-BAR FOR HARVESTERS.



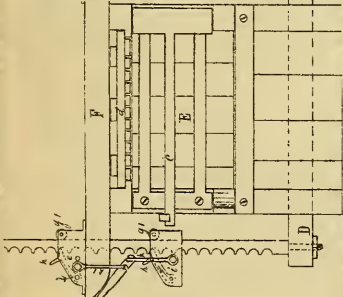
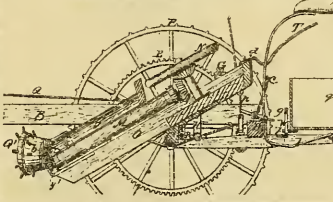
103,367, THOMAS J. POWELL.

ELEVATOR AND CONVEYER.



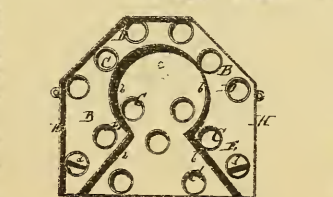
103,356, W. H. MORRIS.

COTTON, HAY, AND HEMP-PRESSES.

103,362, SAMUEL PATTON. COMBINED
CORN-HARVESTER AND HUSKER.

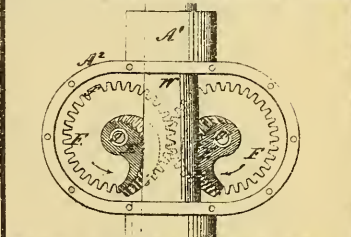
103,363, ABRAHAM L. PENNOCK.

STEAM-GENERATORS.



103,368, WINTHROP DAVIS PUTNAM.

SAFETY SOCKET FOR WHIPS.



103,357, RUSSELL S. MORSE.

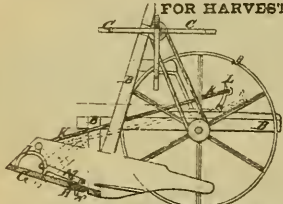
WASHING-MACHINE.

103,369, THOMAS L. REED.

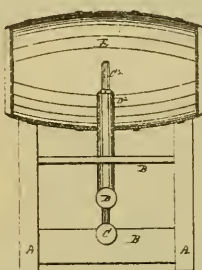
FLEXIBLE TUBING OR HOSE.



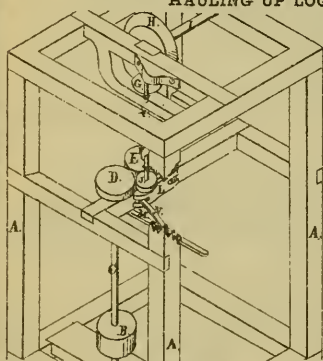
103,370, MARTIN T. REYNOLDS.
DROPPING-PLATFORM
FOR HARVESTERS.



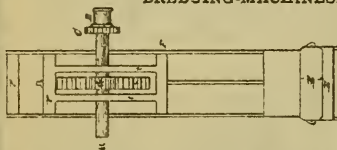
103,371, THOMAS ^{his} REYNOLDS.
^{mark}
MACHINES FOR WASHING BARRELS.



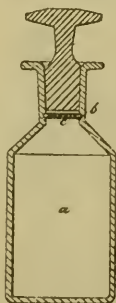
103,372, SIMON H. RICHARDSON.
HAULING UP LOGS.



103,373, W. D. ROBERTSON.
DREDGING-MACHINES.

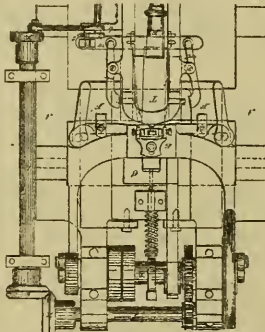


103,374, EDWARD P. ROCHE, M. D.
DEVICE FOR NEULIZING
PERFUMES AND VOLATILE LIQUIDS.

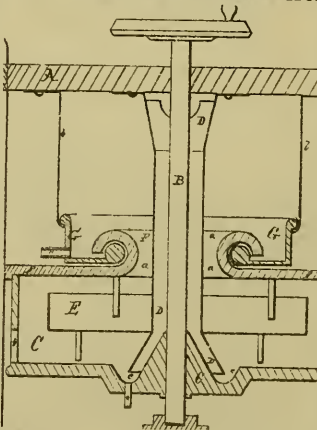


103,375, CHARLES B. SAWYER.
BALANCE ELEVATOR.

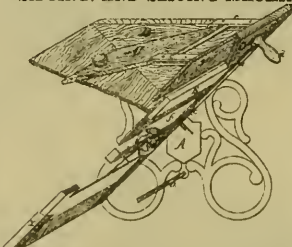
103,376, HENRY SCHEUERLE.
NAIL-MACHINE.



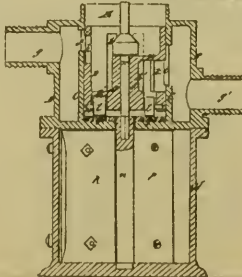
103,377, JOSEPH SCOTT, AMALGAMATOR
AND ORE-CONCENTRATOR.



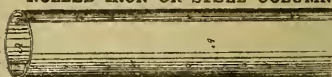
103,378, JOHN F. SHEPARD, GRATING,
SIFTING, AND SLICING-MACHINE.



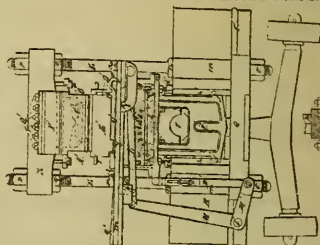
103,379, GERARD SICKELS.
WATER-METERS.



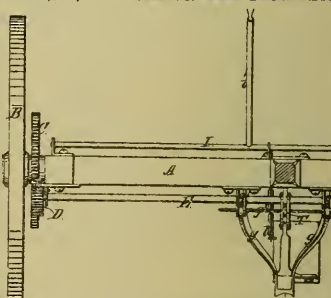
103,380, FREDERICK H. SMITH.
ROLLED IRON OR STEEL COLUMNS.



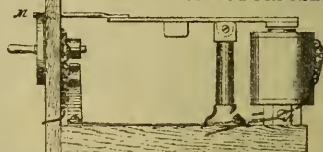
103,381, J. NOTTINGHAM SMITH.
BRICK-PRESS.



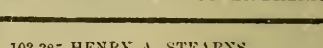
103,382, T. H. SMITH, SEED-PLANTERS.



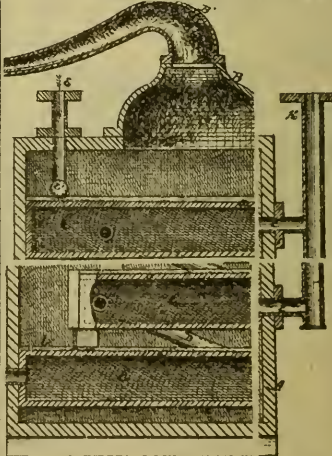
103,383, JAMES P. SNYDER.
ELECTRO-MAGNETIC INDICATORS FOR
BURGLAR-ALARMS AND FOR
OTHER PURPOSES.



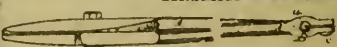
103,384, J. W. SPEYER.
SIZING COTTON AND OTHER FABRICS.



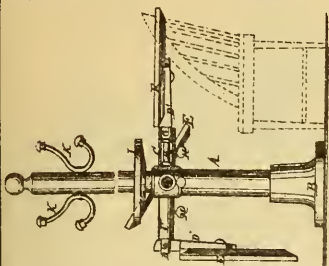
103,385, HENRY A. STEARNS.
APPARATUS FOR DISTILLING
HYDROCARBONS.



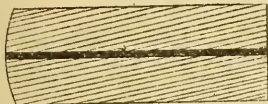
103,386, ORSON W. STOW.
TINSMITHS' SHEARS.



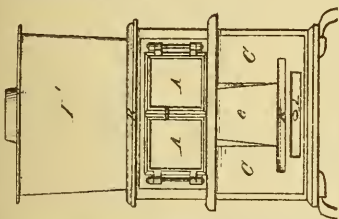
103,387, CHARLES T. SUTTON. TABLE.



103,388, FREEMAN AUGUSTUS TABER. MANUFACTURE OF TUBULAR CANDLES.



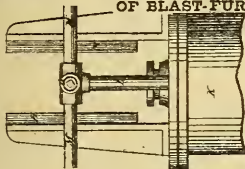
103,389. C. TEMME. COOKING STOVE.



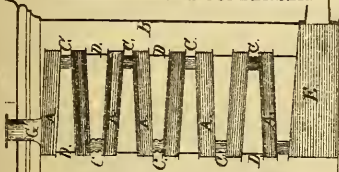
103,390, MOSES A. THAYER. HOT-AIR FURNACE.



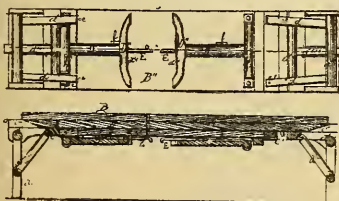
103,391, JAMES THOMAS. APPARATUS FOR OPENING AND CLOSING THE TOPS OF BLAST-FURNACES.



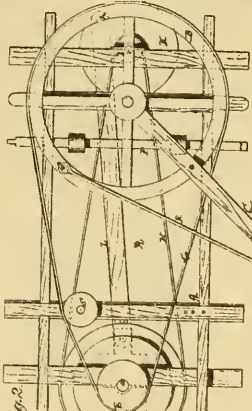
103,392, EDWD. THOMPSON. GAS-CONDENSER.



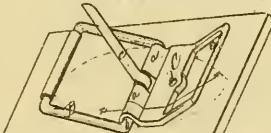
103,393, WM. F. TRAUTMAN. PAPER-HANGERS' APPARATUS.



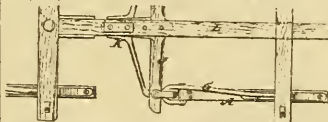
103,394, ASA TRONE. HORSE-POWER SAWING-MACHINE.



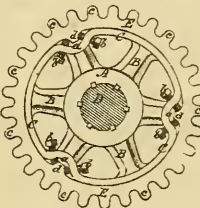
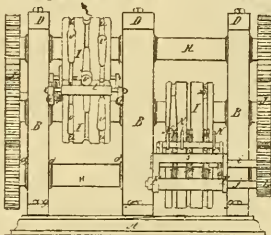
103,395, CHARLES H. TROTT. ATTACHMENT FOR BUCKLES.



103,396, JOHN WAMPACH. BOB-SLED.

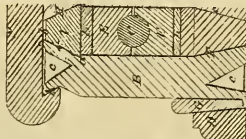


103,397. W. H. WARD. MACHINE FOR ROLLING METALS.

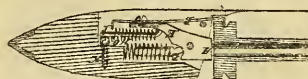


103,398, W. H. WARD. GEAR-WHEEL.

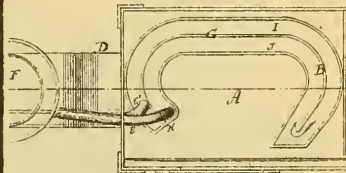
103,399, W. H. WARD. HOUSING FOR METAL-ROLLING MILLS.



103,400, HORACE WELLS. SHUTTLES FOR LOOMS.

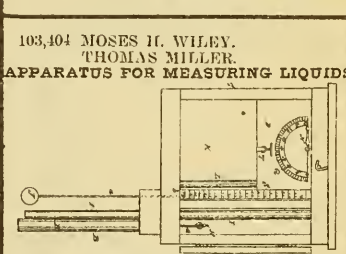


103,401, JAMES WESTERMAN. FURNACES FOR BOILING AND PUDDLING IRON.

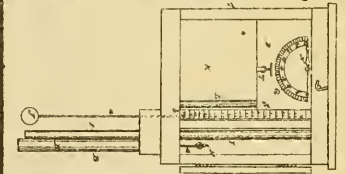


103,402, GEORGE F. WHITNEY. COMPOUND FOR OILING, POLISHING, AND BLACKING LEATHER.

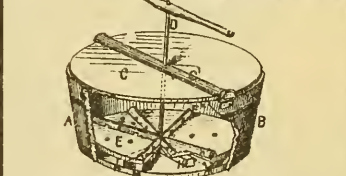
103,403, L. A. WILDER. ROOFING-COMPOUND.



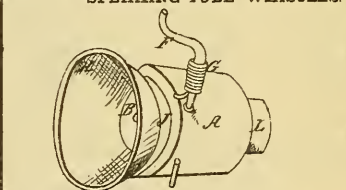
103,404, MOSES H. WILEY. THOMAS MILLER. APPARATUS FOR MEASURING LIQUIDS.



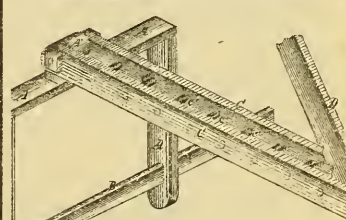
103,405, CHARLES P. WINSLOW. WASHING-MACHINE.



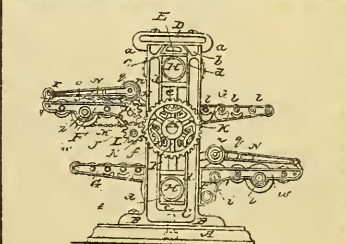
103,406, THOMAS J. WOOLCOCKS. SPEAKING-TUBE WHISTLES.



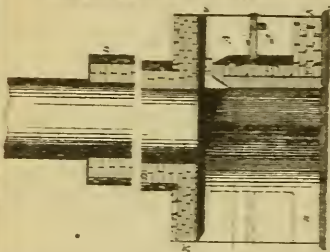
103,407, JAMES D. AKLEY. RICHARD ENGLISH. DEVICE FOR ADJUSTING CROSS-HEADS OF LOCOMOTIVES.



103,408, JONATHAN AMORY. STEAM-GENERATORS AND FURNACES.



103.400. HAN. M. ATKINS.
ALEXANDER GOVAN.
FURNACES FOR ROASTING ORES.



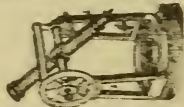
103.416. JAMES E. BIRD.
GEO. C. SMITH.
VULCANIZED INDIA-RUBBER ROLLS
FOR WRINGERS, GRAIN-DRILLS, &c.



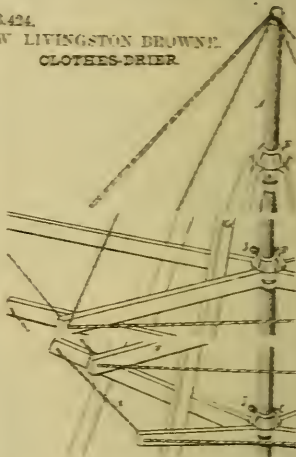
103.423. JOSEPH E. BROWN
PIPE-COUPPLINGS



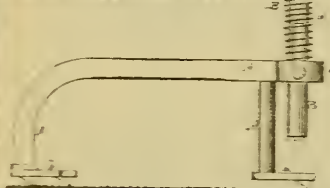
103.417. JOHN BLISS.
GEO. H. BLISS.
STANDS FOR TRANSIT INSTRUMENTS.



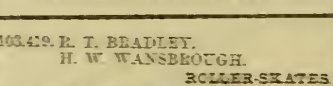
103.424.
W. LIVINGSTON BROWN.
CLOTHES-DRIER.



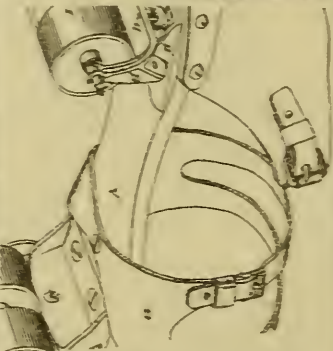
103.410. JAMES E. BANCROFT.
ROBERT C. BACHZ.
CARPET-STRETCHER AND TACKER.



103.418. SAMUEL BOTHWELL.
WELDING
POWDER FOR IRON AND STEEL.

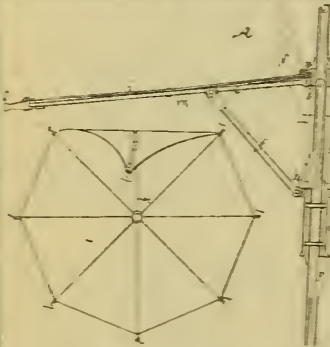


103.419. R. T. BRADLEY.
H. W. WANSBROUGH.
ROLLER-SKATES.

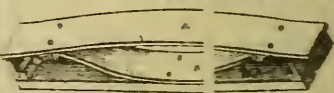


103.411. WM. H. BAER. LINTIMENT

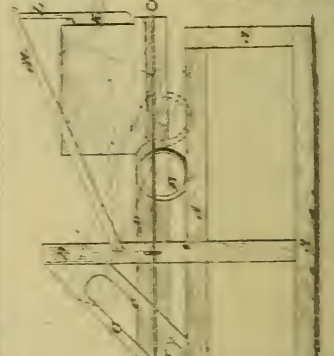
103.412. LUCRETIA BATTLES. PARASOLS.



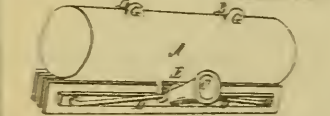
103.425. D. C. BRONSON.
SPRING BED-BOTTOM



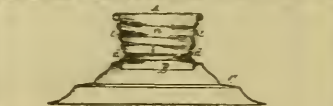
103.426. GEORGE BURKET.
SAMUEL LANTZ.
DUMPING-WAGON



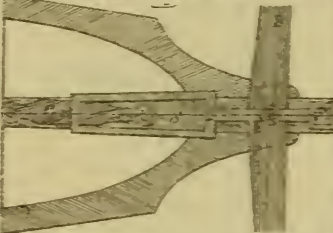
103.413. WILLIAM HEWITT BEATTY
MOP-HEAD



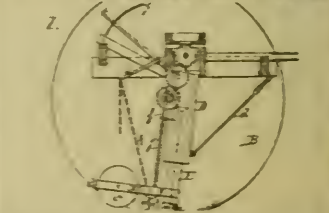
103.420. MELLEN BRAY
NOZZLE AND STOPPER FOR CANS, &c.



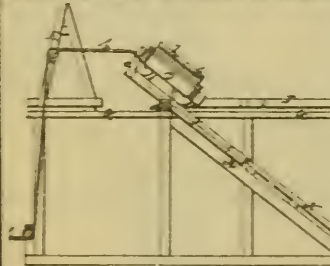
103.421. CHARLES BROWN.
HAMMER-STRAP FOR WAGONS.



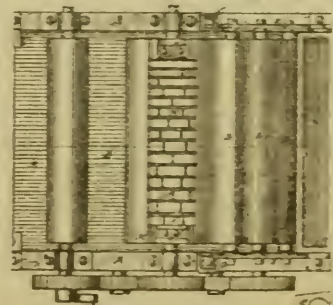
103.427. JACOB BUSH.
BROOM-CORN SEED-PLANTER.



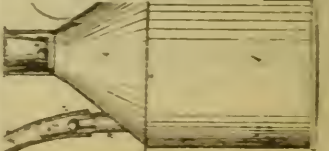
103.414. DAVID N. GREEN.
JOHN C. BENNETT.
ELEVATORS FOR BUILDING MATERIAL



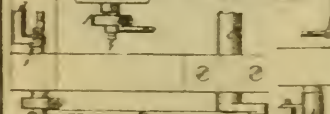
103.422. J. BAILEY BROWN.
PRINTING-PRESSES



103.428. JOHN R. COMPTON. OIL-CANS
CROWELL M. TOMS

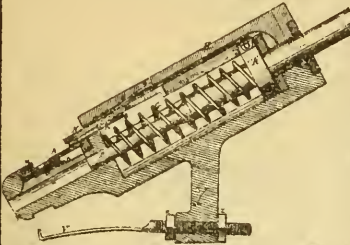


103.415.
FERASTUS E. BIGELOW.
LET-OFF MECHANISM
FOR LOOMS

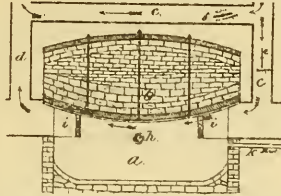


103,429, ROSWELL F. COOK.

BRAD-PUNCH.

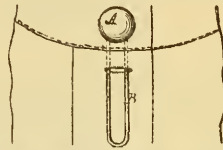


103,437. W. FIELDS.

FURNACES FOR TREATING CAST-IRON
TO CONVERT THE SAME INTO
IRON AND STEEL

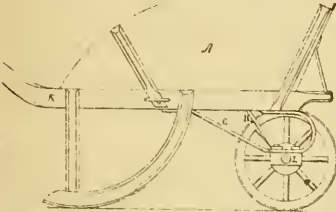
103,443, J. C. GASTON.

BUTTON-FASTENINGS.



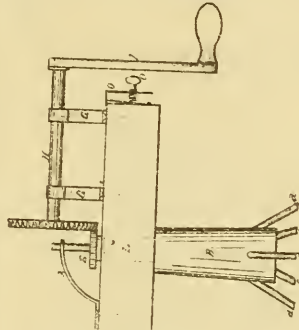
103,430, NELSON CRONKITE.

WHEELBARROW.



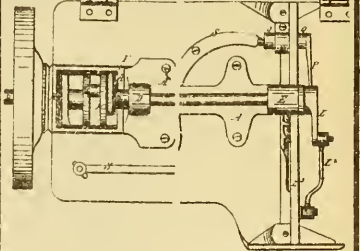
103,438, WM. L. FRAZEE.

WASHING-MACHINE.



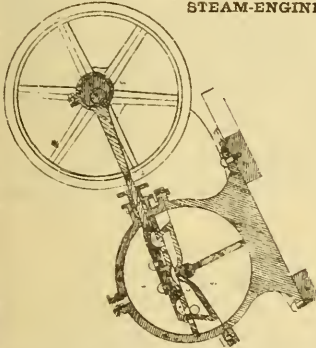
103,444, MICHAEL F. GERAGHTY.

SEWING-MACHINE.



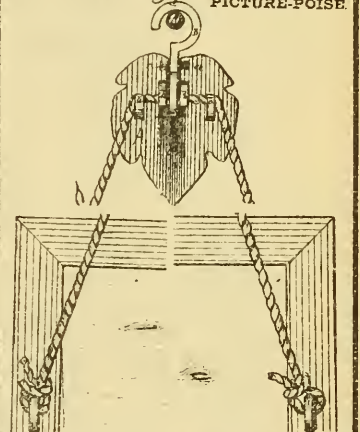
103,431, JOHN MAYRS CURRY.

STEAM-ENGINES.



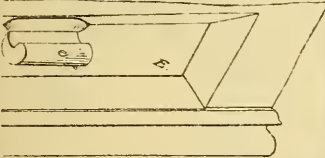
103,445, JOHN JEFFERSON GLOVER.

PICTURE-POISE.



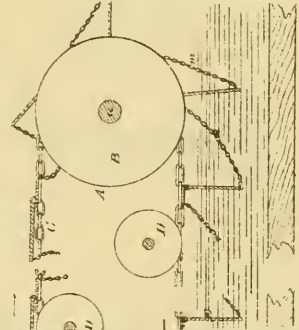
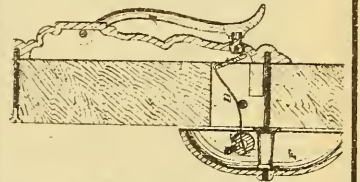
103,432, WALL-PAPER PROTECTOR.

MARY DISSTON.

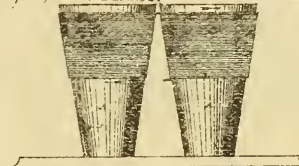


103,439, ABEL, FRENCH.

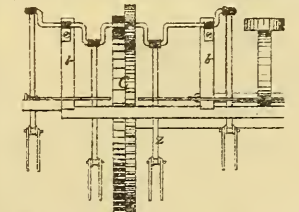
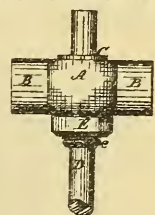
WATER-POWER MECHANISM.

103,446, E. H. GOLDMAN, DOOR-BELLS.
DAVID W. HISEY.103,433, C. M. TESSIE DU MOTAY.
PROCESS OF EXTRACTING SILVER AND
GOLD FROM ARSENIO-SULPHURETS
OF LEAD, COPPER, &c.

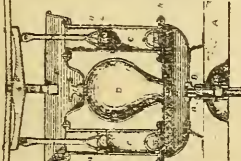
103,440, M. S. FROST, ELECTRO-MAGNETS.

103,434, C. M. TESSIE DU MOTAY.
PROCESS FOR THE TREATMENT
OF ORES.

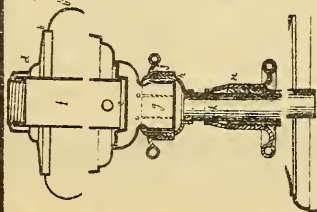
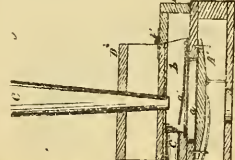
103,441, W. H. M. FRYE, HAY-SPREADERS.

103,447, ADAM GOOD, JR.
ADJUSTABLE CONNECTIONS OF
SUCKER-RODS TO WALKING-BEAMS.

103,435, B. W. FELTHOUSEN, PUMPS.

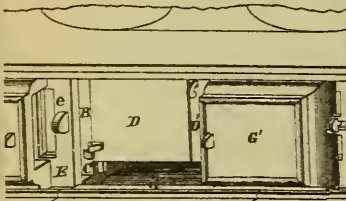
103,436, B. L. FETHEROLF.
TATTING-SHUTTLES.

103,442, JIM B. FULLER, LAMPS.

103,448, HORATIO N. GOODMAN.
ORGANS.

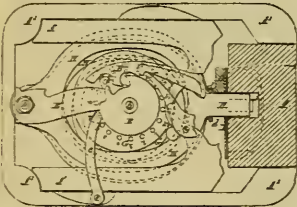
103,449, JAMES GREER.
RUFUS J. KING.

COOKING-STOVE.



103,450. H. GROSS.

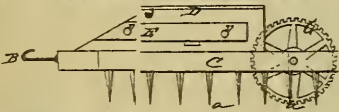
PERMUTATION LOCKS.



103,451, R. H. GUILFORD. BUTTONS.

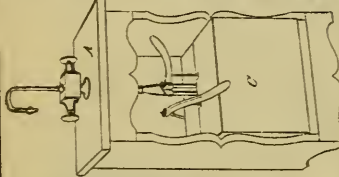
103,452, JOHN E. HALSTED.
COLOPE C. HALSTED.

COMBINED SEEDER AND HARROW.



103,453, NATHAN T. HAMILTON.

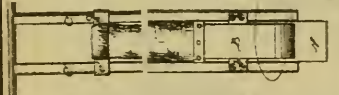
SODA-FOUNTAIN.



103,454, J. F. HANSON.

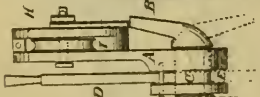
JNO. E. CALLAWAY

SEED-DROPPER.



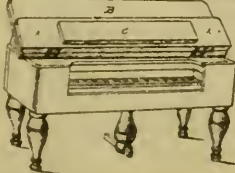
103,455, THOMAS J. HARTE.

DETACHING-BLOCKS.

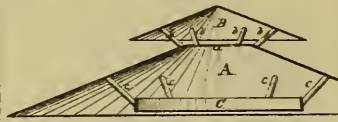


103,456, CHARLES HATTERSLEY.

PIANOS.

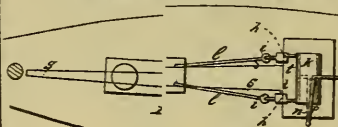


103,457, JOSEPH M. HEARD. HATS.



103,458, HORATIO F. HICKS.

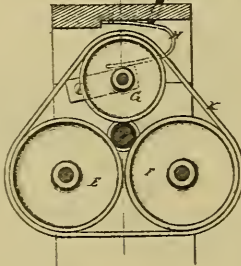
STEAM STEERING APPARATUS.



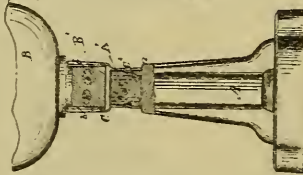
103,459, GILBERT P. HILL.

EDWARD C. DOW.

SAWING-MACHINE.



103,460, J. H. HOBBS. LAMPS.

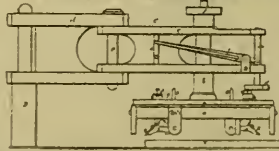


103,461. S. E. HOLBROOK, Jr.

COUNTERSINK.

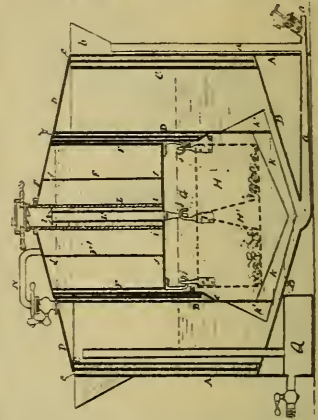
103,462,
ISAAC HOLLIDAY.

BIT-STOCKS

103,463, CHARLES HOLMES.
FRANK E. HOLMES.MACHINERY FOR
SCOURING OR DRESSING HIDES.

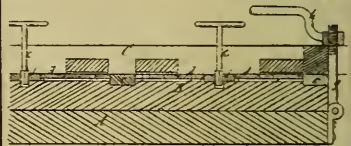
103,464, THOMAS HOWELL.

SEED SOWER.

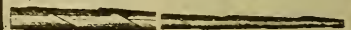
103,465, HENRY I. HOYT.
MACHINES FOR GENERATING AND
CARBURETING HYDROGEN GAS

103,466, PHILIP HUFELAND.

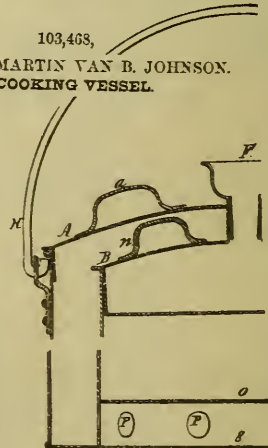
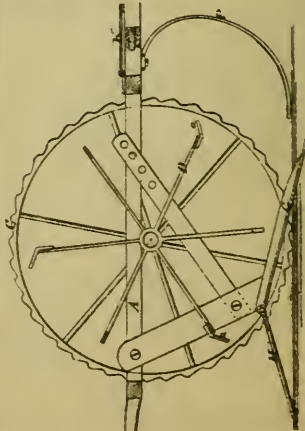
STRIP-PRESS.



103,467, LIVERUS HULL. WHIPS.

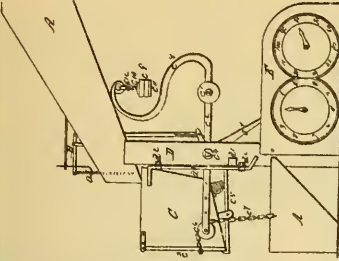
103,468,
MARTIN VAN B. JOHNSON.

COOKING VESSEL.

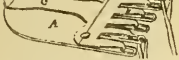
103,469. M. JOHNSON.
POTATO DIGGER.

103,470, JOHN T. KEELING.

GRAIN-METERS.

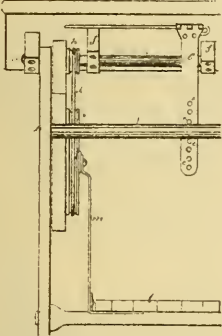


103,471. J. N. KENDALL.

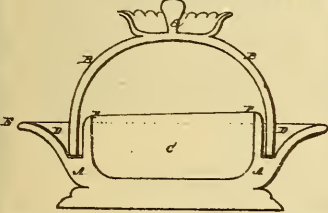
TRANSFERRING AND LOOP RETAINING
COMB FOR KNITTING MACHINES.

103,472. MICHAEL J. KERIGAN.

SEWING-MACHINE TABLE.



103,473. LEOPOLD KLEE.

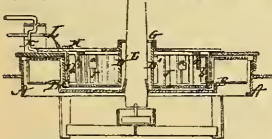
ANDREW PATTERSON.
REFRIGERATING VESSEL.

103,474, VICTOR KNECHT.

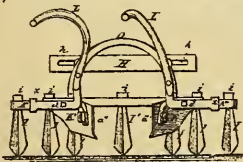
PULLEY-SHEAVE.



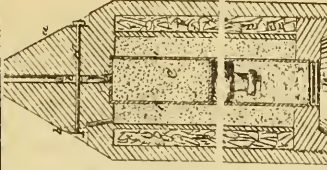
103,475, JESSE KRALL. WATER-WHEELS.



103,476, HUGH LAIRD. CULTIVATOR.

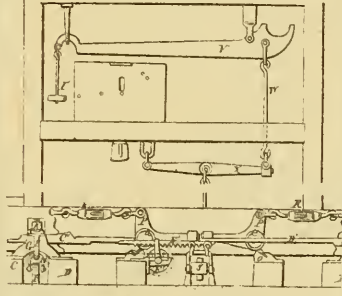


103,477, JOSEPH LINK. PROJECTILES.

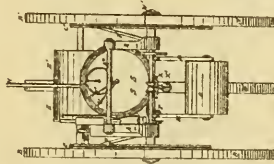


103,478, CHESTER C. LYMAN.

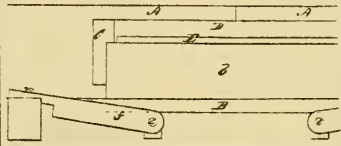
PLATFORM-SCALES.



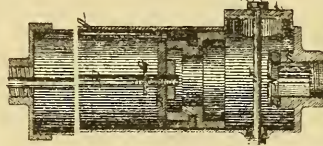
103,479, HENRY MANGER.

SELF-RECORDING SURVEYING
-MACHINE.103,480, THOS. B. McCONAUGHEY.
JAMES ADAMS.

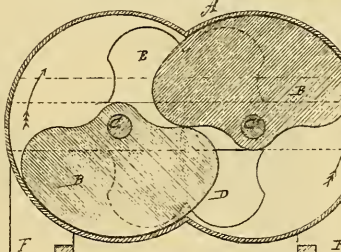
RAILWAY RAIL-JOINT FASTENING.



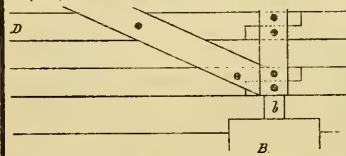
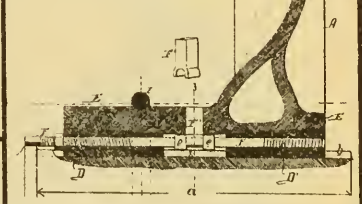
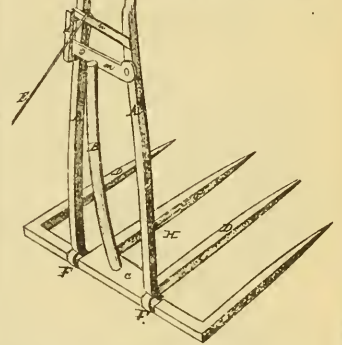
103,481, A. Y. McDONALD. PUMPS.



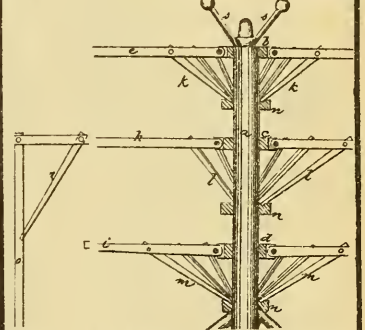
103,482, HENRY C. McILWAIN.

ALONZO BRUMFIELD.
ROTARY BLOWERS.

103,483, JAMES M. McKEE. FENCES.

103,484,
ALEXANDER McLEOD.
SECURING CAR-WHEELS
TO AXLES.103,485,
SAMUEL P. MECAY.
HORSE HAY-FORKS.

103,486, DAVID MORRIS. CLOTHES-DRIER.

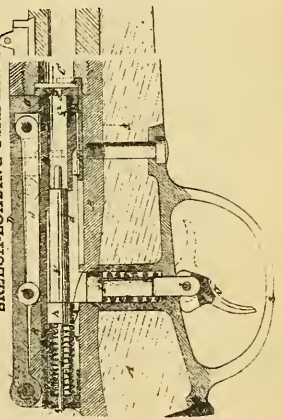


103,487, I. MOSES. TAILORS' MEASURES.

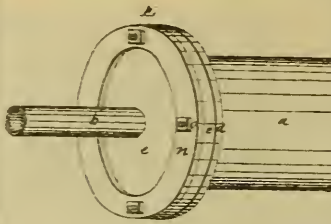
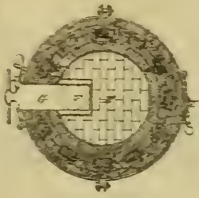


103,488, AL. MULLER.

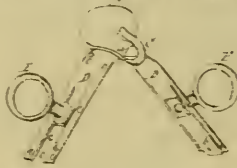
BREACH-LOADING FIRE-ARMS.



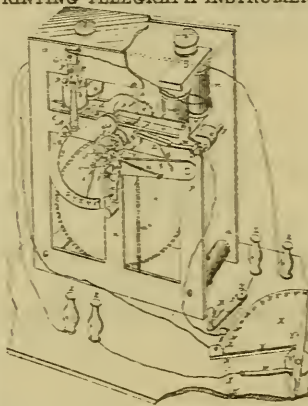
103,480. GEORGE NOCK.
FURNACES FOR PRODUCING
"SPONGE" FROM IRON-ORE.



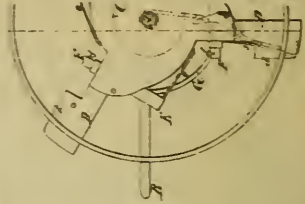
103,493. GEO. PENNOYER.
HARNESS SADDLE-TREE.



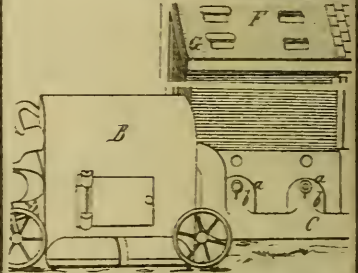
103,496. W. P. PHELPS AND
W. J. PHILIPS.
PRINTING TELEGRAPH INSTRUMENT.



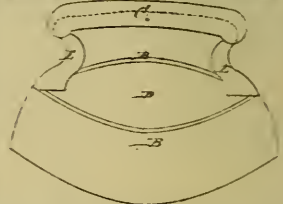
103,499. BENJAMIN PORTER.
CORN-PLANTERS.



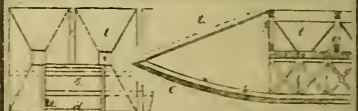
103,500. NATHANIEL F. POTTER.
KILN FOR DRYING AND
BURNING BRICK.



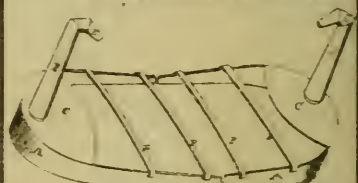
103,501. MARY F. POTTS. SAD-IRON.



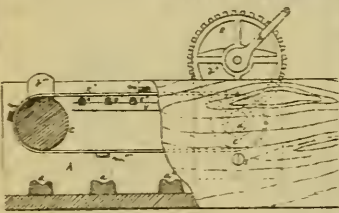
103,502. J. A. PRESTON. COAL-BARGES.



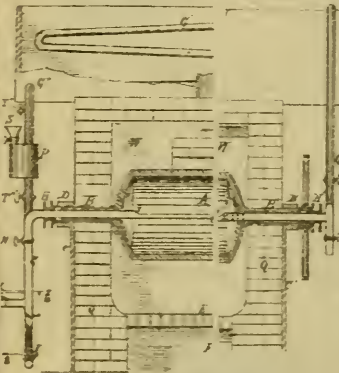
103,503. ADONIJAH H. PROCTOR.
WASH-BOILER ATTACHMENT.



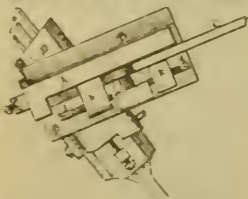
103,491. JOHN B. PADON.
WASHING-MACHINE.



103,492. JAS. W. PAIGE.
DEXTER REYNOLDS.
BOILER FOR STEAM HEATERS.

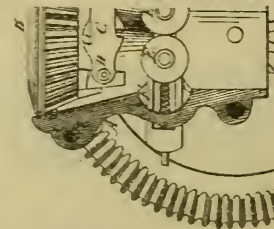


103,493. A. S. PARKS. TOOLS FOR
FITTING BOTTOMS TO FRUIT-BASKETS.



103,494. CHARLES A. PEAVEY.
CONNECTING-PIPE FOR LOCOMOTIVES.

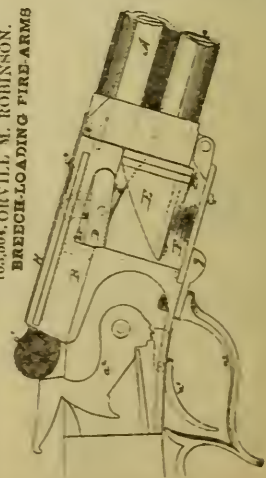
103,497. CHARLES H. PICKERING.
HAND CORN-SHELLERS.



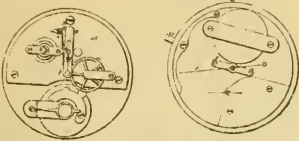
103,498. CHARLES ROHMANN.
APPARATUS FOR
PRESERVING BEER.



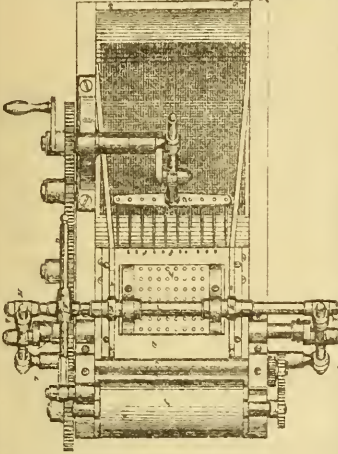
103,504. ORVILL M. ROBINSON.
BREACH-LOADING FIRE-ARMS.



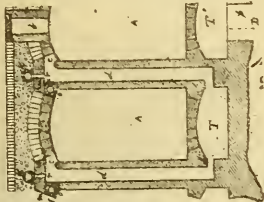
103,505, FREDERIC ROTIG.
STOP-WATCHES.



103,506, CHARLES G. SARGENT.
MACHINERY FOR WASHING AND
DYEING FIBROUS MATERIALS.



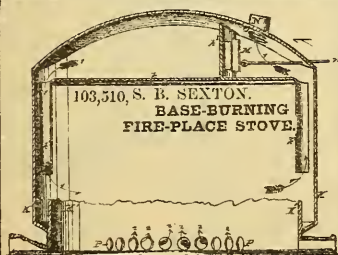
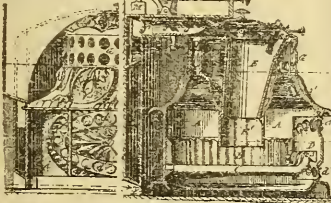
103,507, LEWIS SCHANTL COKE-OVENS.



103,508, MATHIAS SCHOU. JACKS FOR
CONNECTING POLES
AND SHAFTS TO WAGONS.



103,509, H. C. SERGEANT.
FLUID METERS.

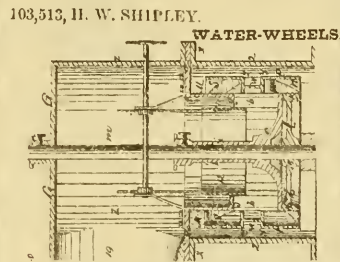


103,510, S. B. SEXTON.
BASE-BURNING
FIRE-PLACE STOVE.

103,511, ALFRED B. SHEAFFER.
BEDSTEAD-FASTENER.



103,512, HARDY L. SHEFFER.
MEDICAL COMPOUND
FOR THE CURE OF DIPHTHERIA.

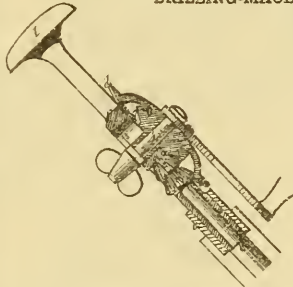


103,513, H. W. SHIPLEY.
WATER-WHEELS.

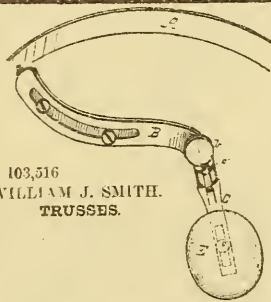
103,514,
WM. H. SHOCK.
PROJECTILES.



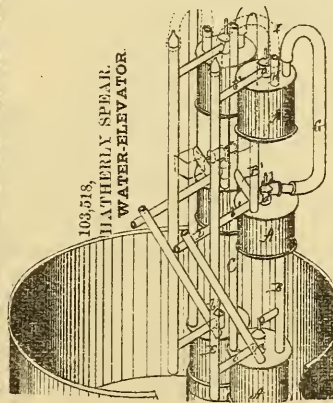
103,515, JAMES SMITH.
DRILLING-MACHINE.



103,516
WILLIAM J. SMITH.
TRUSSES.

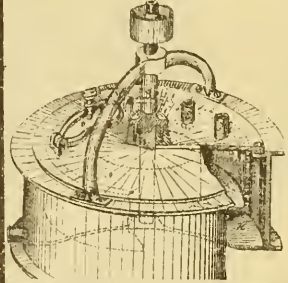


103,517, S. SORENSON.
PREPARATION OF ARTIFICIAL
LEATHER FROM SCRAPLEATHER, &c.

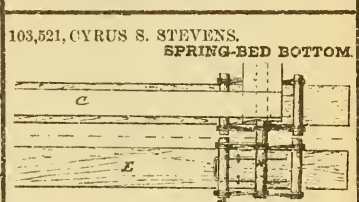


103,518,
HATHERLY SPEAR.
WATER-ELEVATOR.

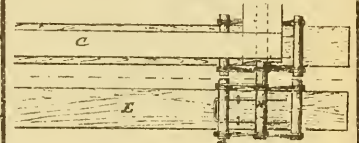
103,519, HENRY A. STEARNS.
APPARATUS FOR EXTRACTING OIL
FROM ANIMAL AND VEGETA-
BLE SUBSTANCES.



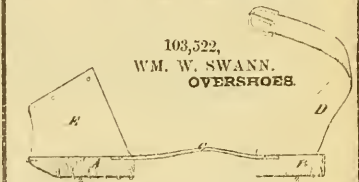
103,520, CHARLES STEPHENS.
MANUFACTURE OF ARTIFICIAL STONE.



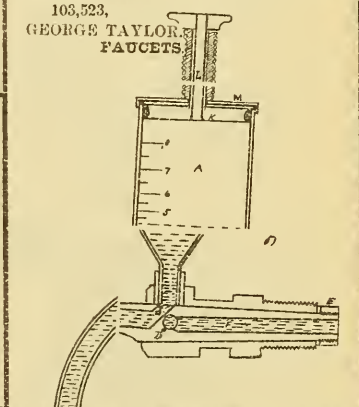
103,521, CYRUS S. STEVENS.
SPRING-BED BOTTOM.



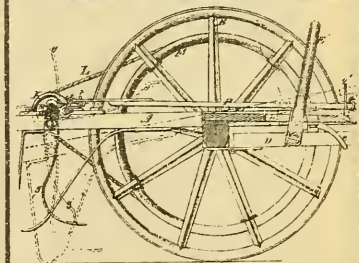
103,522,
WM. W. SWANN.
OVERSHOES.



103,523,
GEORGE TAYLOR.
FAUCETS.



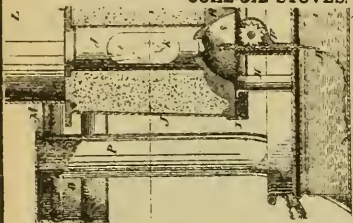
103,524, S. J. TAYLOR.
COMBINED HAY-RAKE AND TEDDER.



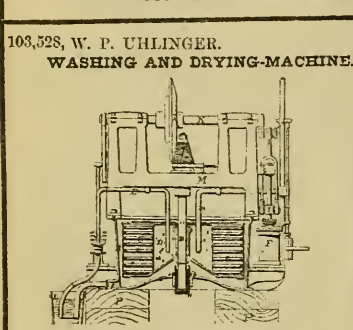
103,525,
JOHN THIELEMAN.
PHILIPP MEYER.
PIANO-LOCKS.



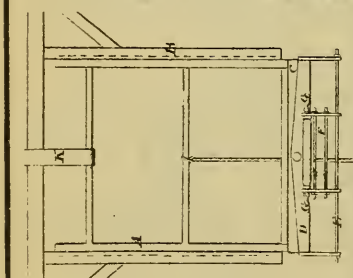
103,526, JAMES H. THORP.
COAL-OIL STOVES.



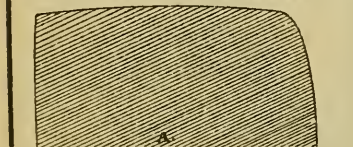
103,527, HIRAM TUCKER.
SURFACING CAST-IRON.



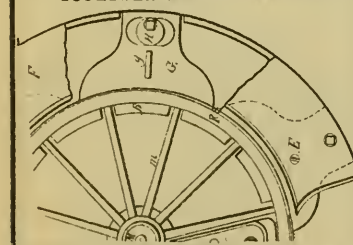
103,529, GEORGE Z. VANDERSLICE.
BE. L. CHURCHILL.
SAW-FILING MACHINES.



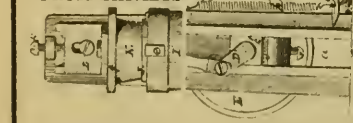
103,530, EUGENE WARD, MANUFACTURE
OF WINKERS FOR HARNESS-BRIDLES.



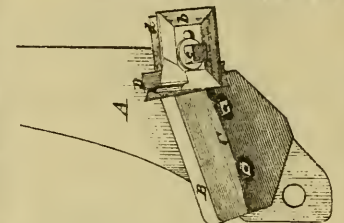
103,531, W. F. WATERS.
MACHINES FOR PUTTING
TOGETHER AND TIRING WHEELS.



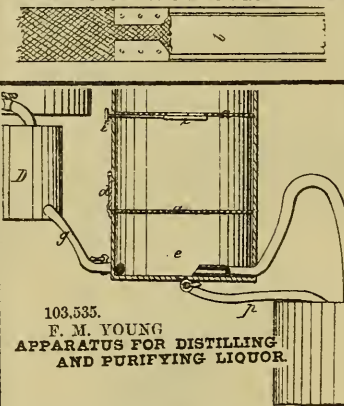
103,532, BAXTER D. WHITNEY.
MACHINES FOR BOTTOMING
FRUIT-BASKETS.



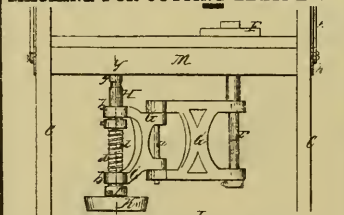
103,533, BAXTER D. WHITNEY.
CUTTERS FOR CUTTING THE
BODIES OF FRUIT-BASKETS.



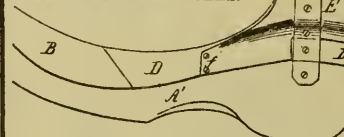
103,534, THOMAS SCOTT WILLIAMS.
FREEMAN AUGUSTUS TABER.
TREATING CANDLE AND LAMP-WICK.



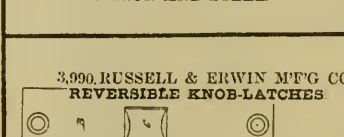
3,987, C. F. DAVIS, T. COREY,
S. AND R. BOYD.
MACHINE FOR CUTTING LEATHER.



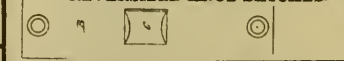
3,988, J. B. GATHRIGHT.
TREE FOR SIDE SADDLES.



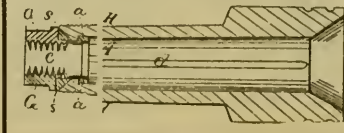
3,989, S. B. HEWETT, JR., AND
L. P. JONES.
COATING IRON AND STEEL.



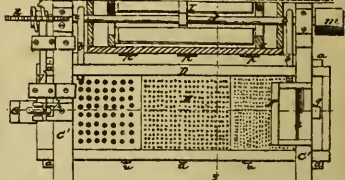
3,990, RUSSELL & ERWIN MFG CO.
REVERSIBLE KNOB-LATCHES



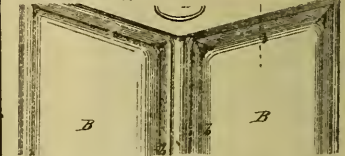
3,991, ALFRED E. SMITH.
CARRIAGE-AXLES.



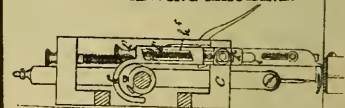
3,992, WILLIAM W. STOLL.
MACHINES FOR SEPARATING
GRAIN AND OTHER MATERIALS.



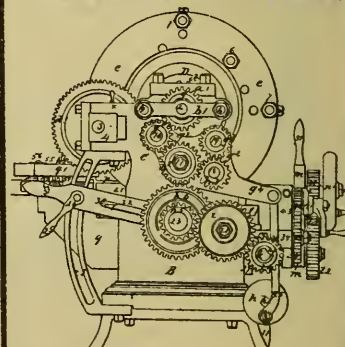
3,993, CAN FOR PAINT, FRUIT, &c
THE DEVOE MANUFACTURING
COMPANY.



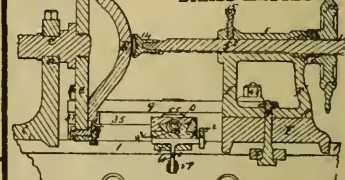
3,994, THE GLOBE SEWING-MACHINE CO.
SEWING-MACHINE.



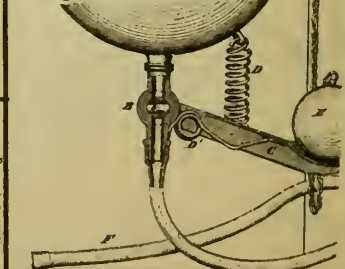
3,995, WATERBURY BRASS CO.
MACHINE FOR MAKING KETTLES.



3,996, WATERBURY BRASS CO.
BRASS KETTLES.



3,997, W. P. VAN DEURSEN,
W. C. DAVIS.
FIRE-EXTINGUISHERS
FOR USE ON RAILROADS, &c.



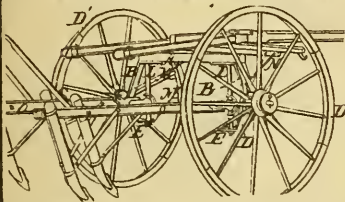
ILLUSTRATIONS OF PATENTS

ISSUED FROM

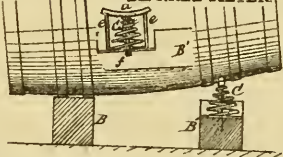
THE UNITED STATES PATENT OFFICE

MAY 31. 1870.

103,536, THOMAS R. ABBOTT.
COMPOSITION FELTING FOR
COVERING ROOFS, SHIPS' BOTTOMS, &c.



103,540, GEORGE ARMSTRONG
BARREL-TILTER.



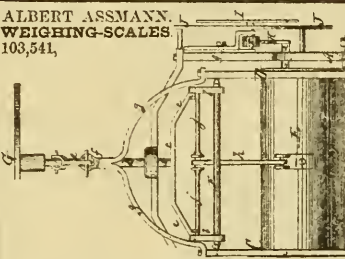
103,550, SIMEON R. BOLTON
TIGHTENING WHEEL-TIRES



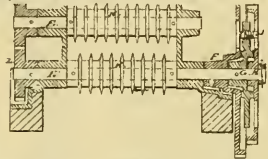
103,551, A. BOOTH.
REFRIGERATING OYSTER-CAN



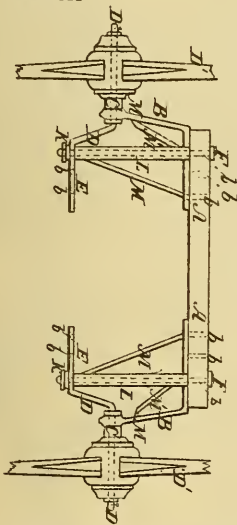
ALBERT ASSMANN.
WEIGHING-SCALES
103,541.



103,552, ADOLF C. BOTH.
IMPROVED HAY AND STRAW CUTTER



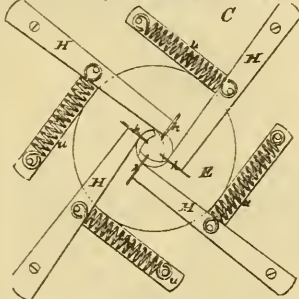
103,537. H. A. ADAMS.
CULTIVATOR



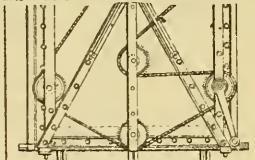
103,542, M. O. BAKER. LOCKS.



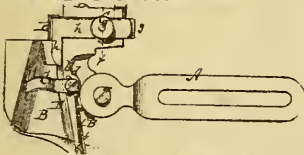
103,543, VOLNEY BARKER.
GREEN-CORN CUTTER.



103,553 G. O. BOUZAT.
MODE AND MATERIAL FOR
CONSTRUCTING FLOORS, CEILINGS



103,538, L. ANDERSON.
BINDING-ATTACHMENT
FOR SEWING-MACHINES.

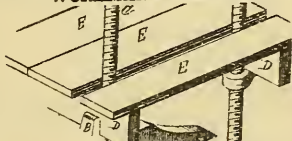


103,544, HENRY BEAGLE, JR. NUT-LOCK

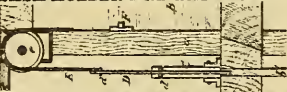


103,545. PHILIP BECKER.
MEDICAL COMPOUND.

103,546. WM. H. BERGER.
WORKMAN'S SCAFFOLD



103,547. GEORGE W. BISHOP.
SASH-HOLDER AND BALANCE



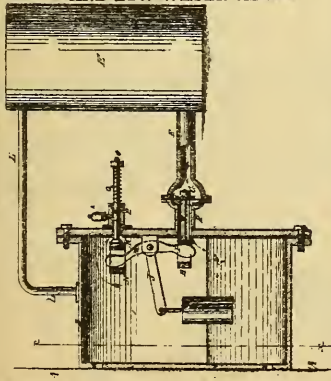
103,548, ORRIS BLAKE.
SPRING BED-BOTTOM



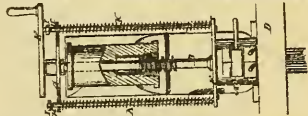
103,549, JOSEPH BOND BLANCHARD.
NEEDLE FOR SEWING-MACHINE.



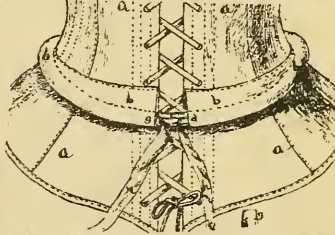
103,539, VALERIUS D. ANDERSON.
BOILER-FEEDER
AND LOW-WATER ALARM



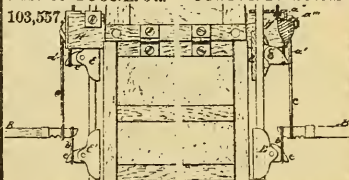
103,555, JAMES M. BROOKFIELD.
MODE OF FORMING INSULATORS.

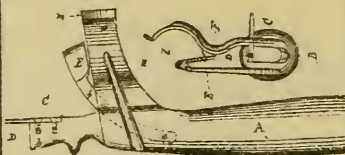
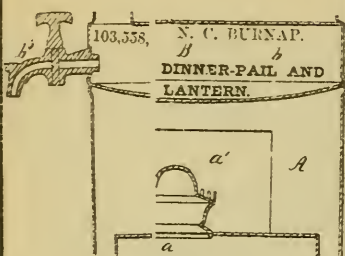


103,556, J. W. BROOKS.
CORSET SKIRT-SUPPORTERS.



B. R. BROWN. HAY AND
JAMES TOONE, JR. COTTON-PRESSES.

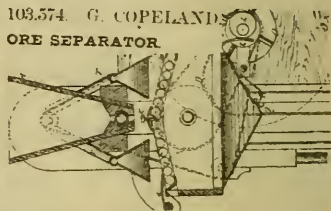




103,573. ALMOND F. COOPER.
CARRIAGE AND RAILROAD-CAR
WHEELS.



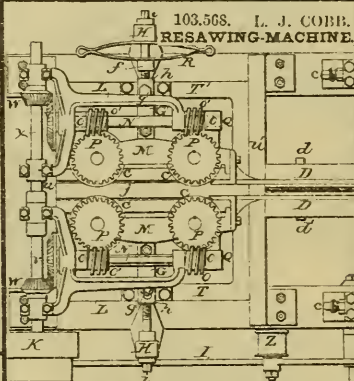
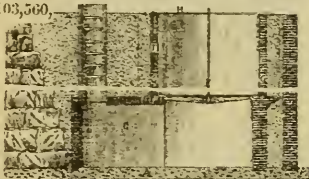
103,574. G. COPELAND.
ORE SEPARATOR.



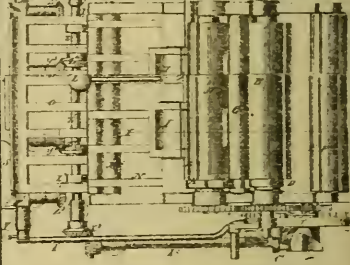
L. C. BUTCH. BELLS FOR CLOCKS.
103,559.



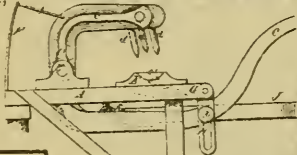
ROBERT CARTWRIGHT. MOLDING-PITS
FOR CASTING CYLINDERS AND PIPES.
103,560.



103,575. W. M. PINCKNEY CORSA.
MACHINES FOR CUTTING, PRINTING,
AND FOLDING PAPER.



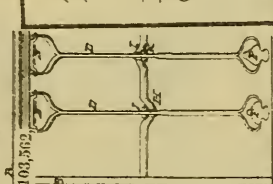
E. H. CARVER.
103,561. CORN-HUSKING MACHINES.



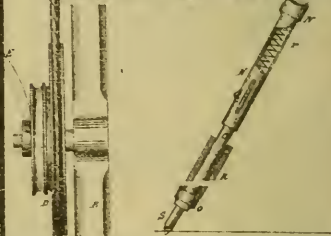
103,569. PHINEAS COBURN.
MACHINERY FOR CALENDERING
AND POLISHING PAPER.



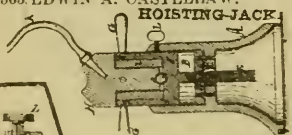
HENRY J. CASE.
TREADLES FOR
SEWING-MACHINES.
103,562.



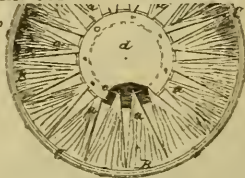
103,576. CHARLES J. COULTER.
ENGRAVING-MACHINES.



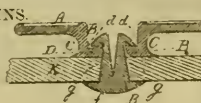
103,563. EDWIN A. CASTELLAW.
HOISTING-JACK.



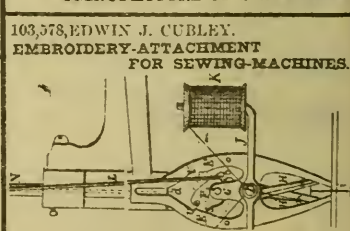
EASTMAN COLBY.
103,570. FRUIT-BASKET.



JOHN F. COLLINS.
A. NEILL.
103,571. BUTTONS.



103,577. ISAAC F. CRAIG.
MANUFACTURE OF SHEET-IRON.

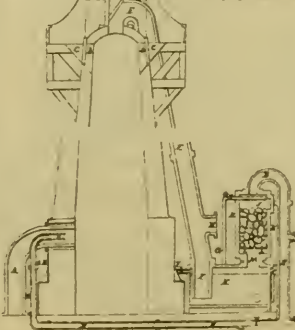


103,565. M. E. CHARLES.
STAND AND CLOTHES-DRIER.

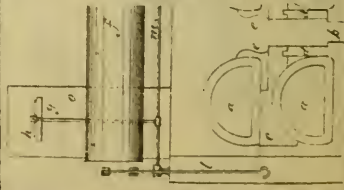


ALFRED CLARKE. 103,566.
ARTHUR CLARKE. SHOEMAKERS' TOOL.

103,572. JOSEPH H. CONNELLY
JOHN McLURE.
COLLECTING, SEPARATING,
AND PURIFYING THE GASES FROM
FURNACES.



103,579. THOMAS CURLEY.
SETTING GAS-RETORTS.

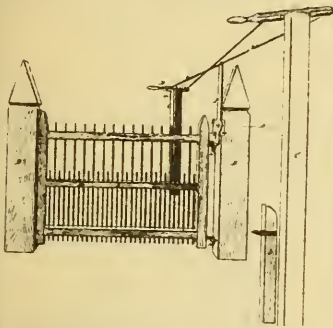


103,580, E. J. DE SMEDT.
MANUFACTURE OF ARTIFICIAL FUEL.

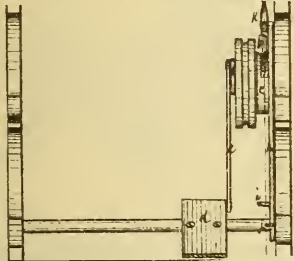
103,581, E. J. DE SMEDT.
LAYING ASPHALT OR CONCRETE
PAVEMENT ON ROADS.

103,582, E. J. DE SMEDT.
ASPHALT ROADS AND PAVEMENTS.

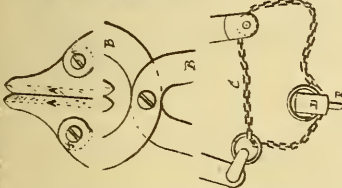
103,583, B. F. DICKEY, GATES.



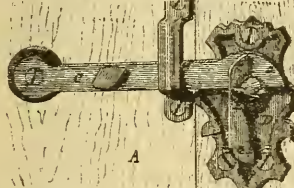
103,584, DAVID A. DICKINSON.
PREVENTING REVERSE MOTION
IN SEWING-MACHINES.



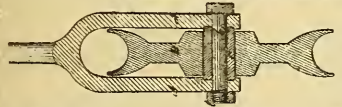
103,585, GEORGE DOHN.
TONGS FOR RIGGING.



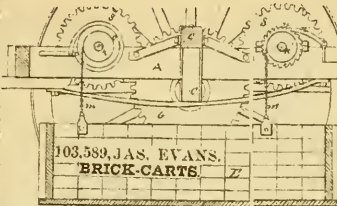
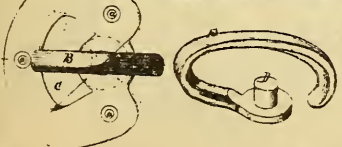
103,586, THOMAS DOLAN, LATCHES.



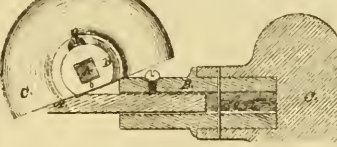
103,587, WILLIAM W. EASTMAN.
BEARING FOR SHEAVES.



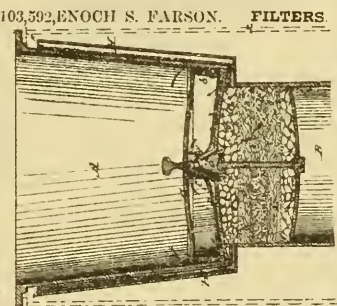
103,588, GUSTAVUS ELBEL.
REVOLVING BACK-BAND HOOK FOR
HARNESS-SADDLES.



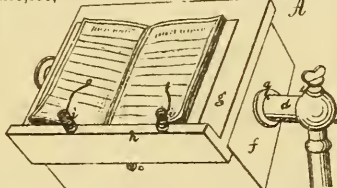
103,590, JOHN EVANS.
ATTACHING DOOR-KNOBS
TO THEIR SPINDLES.



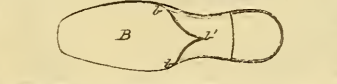
103,591, FRANCOIS FABRE.
MANUFACTURE OF BRICKS,
TILES, &c. FROM SLAG.



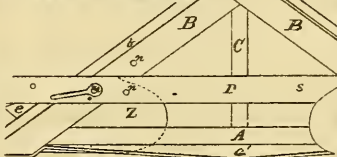
103,593, AND. C. FLINT, READING-STAND.



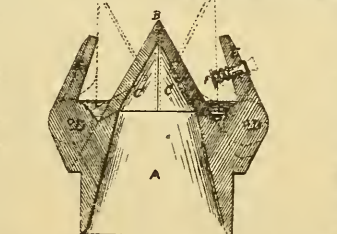
103,594, FRANCIS FLYNN.
TAP FOR RUBBER BOOTS.



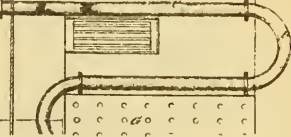
103,595, R. G. FORSYTH.
DITCHING-MACHINES.



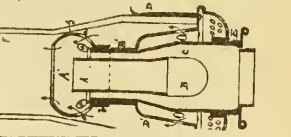
103,596, CHARLES H. FRISBIE.
EXHAUST-NOZZLE.



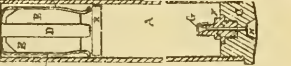
103,597, JOB FROGETT.
HOT-BLAST OVENS.



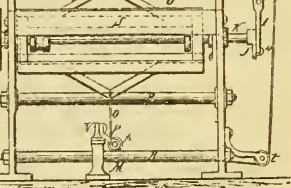
103,598, J. B. FULLER, LAMP-BURNERS.



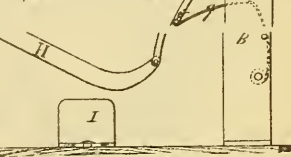
103,599, WM. GARDNER, PERCUSSION-FUSE.



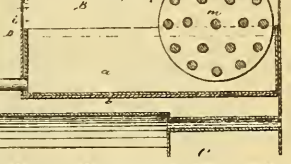
CHAS. W. GILBERT.
103,600, LOOM.



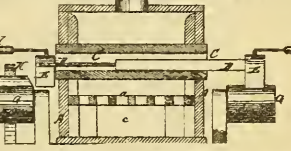
GEORGE D. GOODSSELL.
NOYES E. BABCOCK.
103,601, BREAD-CUTTER.



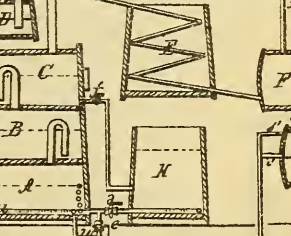
GEO. F. GRAY.
APPARATUS FOR
EVAPORATING LIQUIDS.
103,602.

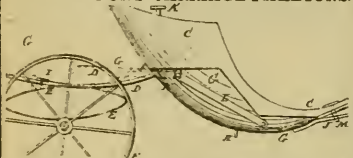


103,603, JACOB GULDEN.
SOLDERING APPARATUS.

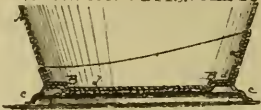
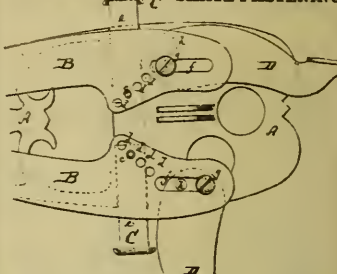


103,604, FREDERIC GUTZKOW.
METHOD OF DISTILLING IN VACUO.

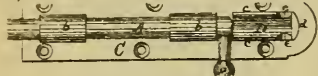
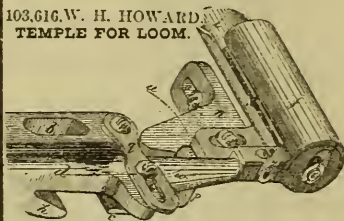
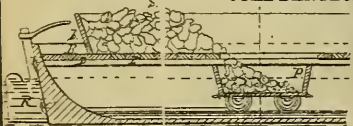


103,605, JOHN C. HAM.
PONY CARRIAGE-PHAETONS.

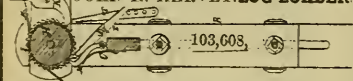
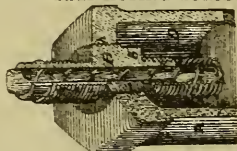
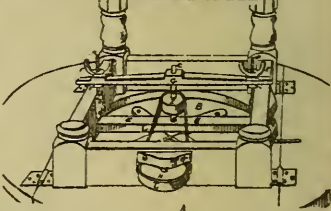
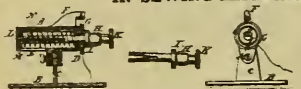
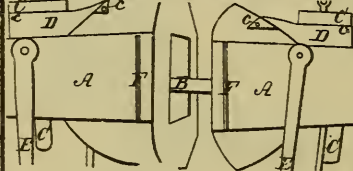
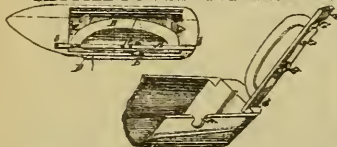
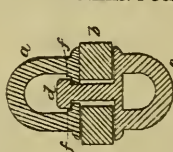
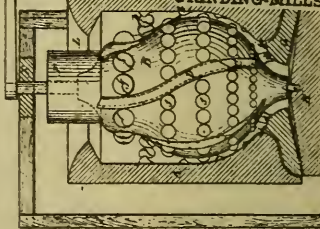
103,615, CHAS. HODGETTS, COAL-SCUTTLE.

103,623, MOSES KINSEY.
SKATE-FASTENING.

103,606, WM. H. HART, DOOR-BOLTS.

103,616, W. H. HOWARD,
TEMPLE FOR LOOM.103,607, ROGER HARTLEY
COAL-BARGES.103,624, C. L. KNECHT.
CORK-SAVING BOTTLE-FASTENING.

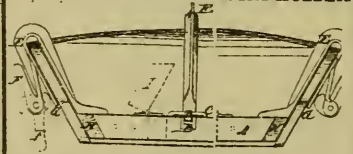
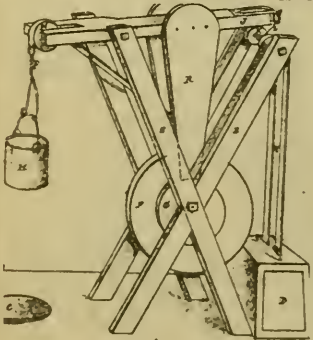
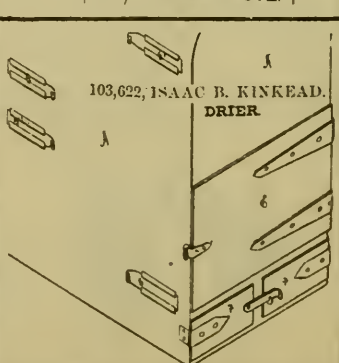
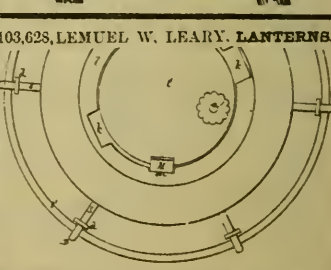
103,608, JOHN H. HARVEY, LOG-LOADER.

103,617, W. B. HOWE.
SELF-ACTING LUBRICATOR.103,625, JAMES L. KNIGHT.
DINING-TABLE.103,609, M. C. HAWKINS.
TENSION DEVICE FOR NEEDLE-THREAD
IN SEWING-MACHINES.103,618, GEORGE C. HUGG,
RAILWAY-CAR COUPLING.103,610, M. C. HAWKINS
SHUTTLE FOR SEWING-MACHINE.103,619, F. P. HUNT.
CHAIN-PUMP BUCKETS.103,626, PHILIP KRAUS.
GRINDING-MILLS.103,611, M. C. HAWKINS.
HEMMER FOR SEWING-MACHINE.

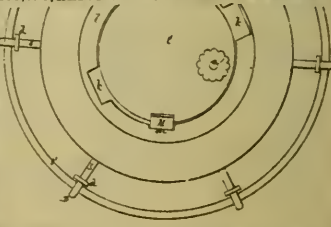
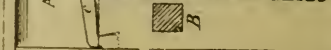
103,612, NATHAN S. HAZEN, CHURNS.



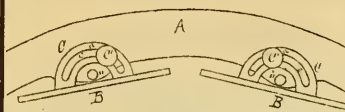
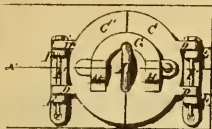
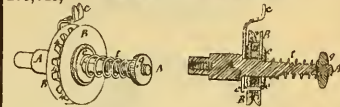
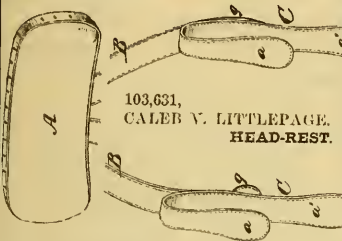
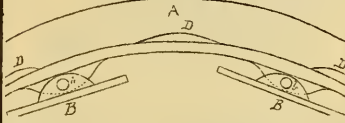
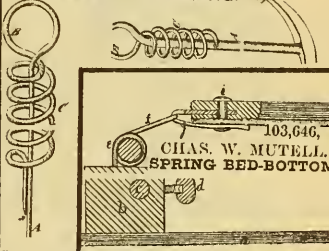
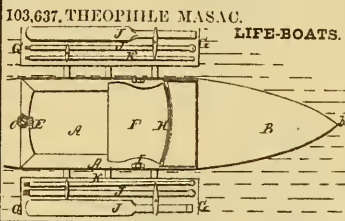
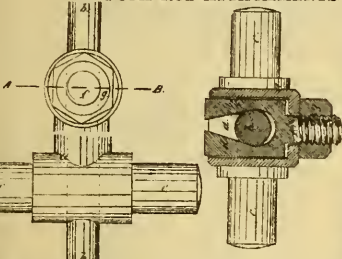
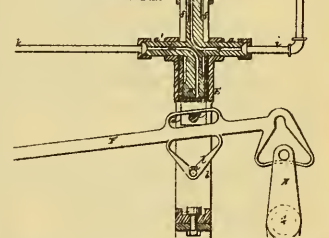
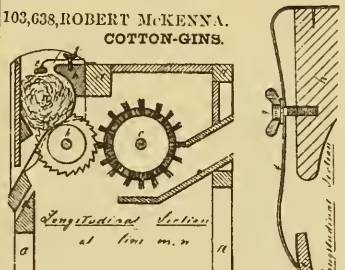
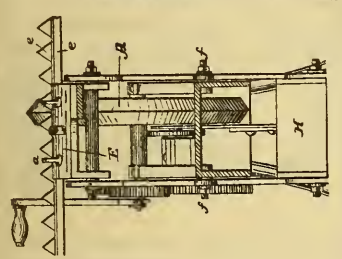
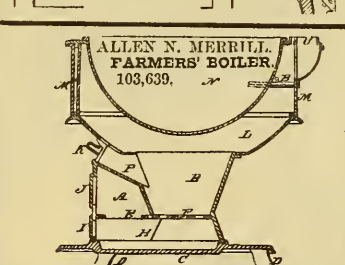
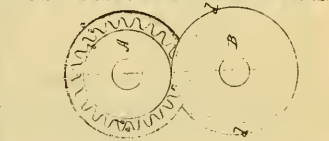
103,620, JOHIEL JACKSON SEAT-HOLDER.

103,613, MORRISON HEADY.
WATER-ELEVATOR.103,621,
B. F. JOHNSON,
COOKING-STOVE.103,614, FRANCIS M. HILLSTREAM.
COMPOSITION MADE FROM COAL-TAR.103,627,
GEORGE LAMB,
PICTURE-HANGER.

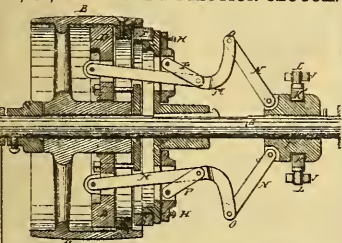
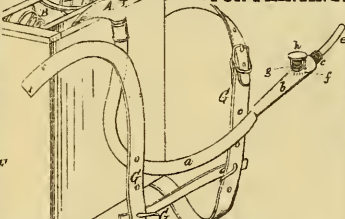
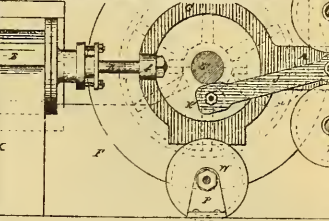
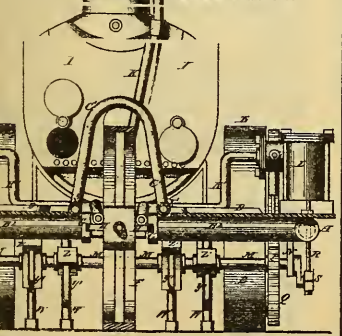
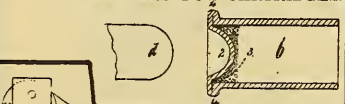
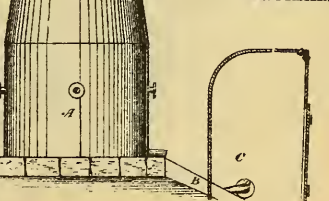
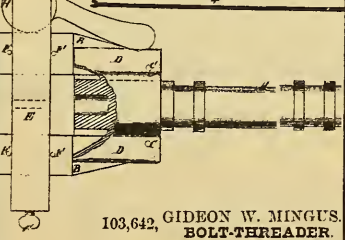
103,628, LEMUEL W. LEARY, LANTERNS.

103,629,
JOHN LINTNER,
FASTENINGS FOR GATES.

103,630, R. LISTON HAWSE-HOLE COVER.

103,636, C. K. MARSHALL.
CART-SADDLES.JOHN H. MOONEY, TENSION-WHEEL
103,643, FOR SEWING-MACHINE.103,644, SAMUEL MOYLE, JR.
OIL-CAN SPOUTS.103,631,
CALEB V. LITTLEPAGE.
HEAD-REST.103,637, THEOPHILE MASAG.
LIFE-BOATS.103,645, CHAS. S. MUSCROFT.
SPIRAL FASTENING.103,632, HENRY H. LOCKE.
PUMP-ROD ATTACHMENTS103,638, ROBERT McKENNA.
COTTON-GINS.103,646,
CHAS. W. MUELLER.
SPRING BED-BOTTOM103,647, A. ONSLOW.
DISENGAGING
VALVE-GEAR FOR
LOCOMOTIVES.103,633, THOS. LORING.
HARVESTER-KNIFE GRINDER.ALLEN N. MERRILL.
FARMERS' BOILER.
103,639.103,648, BENJ. S. PARTRIDGE WHEELS
FOR TINNERS' BEADING-MACHINES.

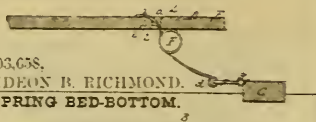
103,634, ORRIN LULL FRICTION-CLUTCH.

103,640, ASA P. MERRITT.
APPARATUS
FOR PAINTING.103,649, LEONARD PHLEGER.
STEAM-ENGINE CONNECTIONS.103,635, M. N. LYNN.
STEAM FLOW.103,641, J. M. MILBANK.
PRIMERS FOR CARTRIDGES.103,650, A. A. PLAYER AND
H. McALLISTER, JR., FURNACES, FOR
PRODUCING A USEFUL TREATING
SLAG, FROM IRON AND GLASS
MATERIAL.103,642, GIDEON W. MINGUS.
BOLT-THREADER.

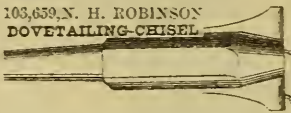
103,651, AUGUSTA AMELIA PLAYER.
HENRY McALLISTER, JR.
HOT-BLAST OVENS



103,658,
GIDEON B. RICHMOND.
SPRING BED-BOTTOM.



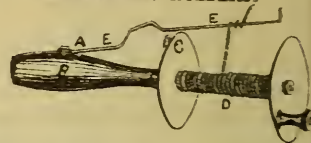
103,659, N. H. ROBINSON
DOVETAILING-CHISEL



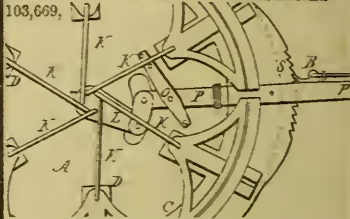
103,660, OLIVER X ROCK.
HAMMERS.



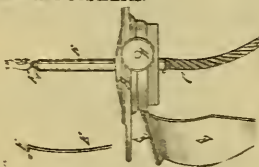
103,668, GEORGE G. SHELTON.
KITE-STRING HOLDERS



ANDREW SHOGREN.
HENRY A. ADAMS.
TIRE-SETTING
MACHINES.



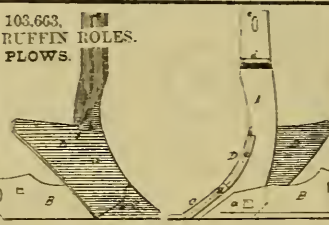
103,652, DAVID J. POWERS.
LAMP-EXTINGUISHERS.



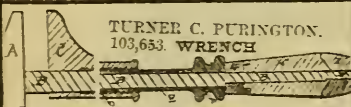
103,661, JOSEPH G. ROGERS.
COMPOSITION FOR PREVENTING
INCrustATION IN STEAM-BOILERS.

103,662, JOSEPH G. ROGERS. PREVENTING
INCrustATION IN STEAM-BOILERS.

103,663,
RUFFIN ROLES.
PLOWS.



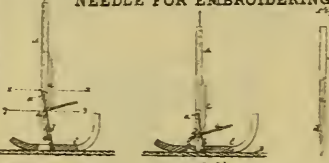
TURNER C. PURINGTON.
103,653. WRENCH



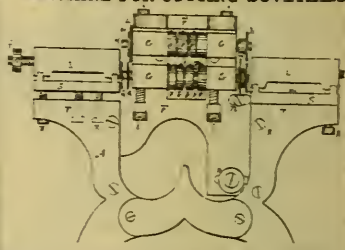
103,654, D. W. PUTT.
APPARATUS FOR
TEACHING STUDENTS THE USE
OF TELE-GRAPHIC INSTRUMENTS



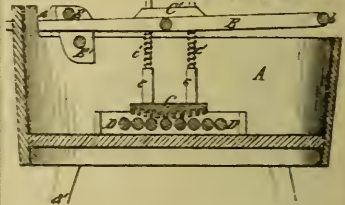
103,664, I. M. ROSE. SEWING-MACHINE
NEEDLE FOR EMBROIDERING.



103,670, WILLARD E. SIBLEY.
MACHINE FOR CUTTING DOVETAILS



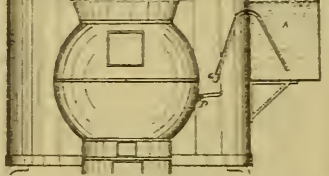
103,671, JOHN SIBBINE.
WASHING-MACHINE.



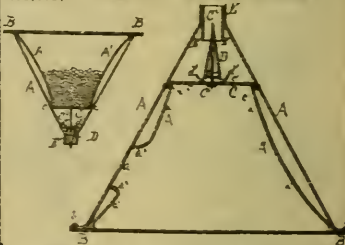
103,655, JOSHUA M. READ.
COOKING-STOVE



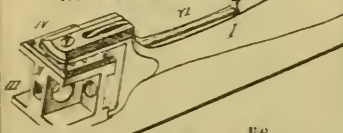
103,665, PHILIP JACOB SCHOPP.
APPARATUS TO EFFECT THE
HYDRATION OF AIR IN HEATED
APARTMENTS.



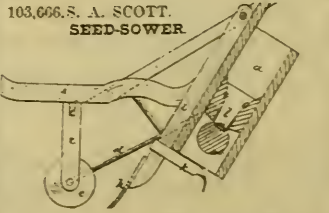
103,672, C. J. SMITH. SAFETY-STOVE



103,656, MATHIAS REDLINGER.
WRENCHES



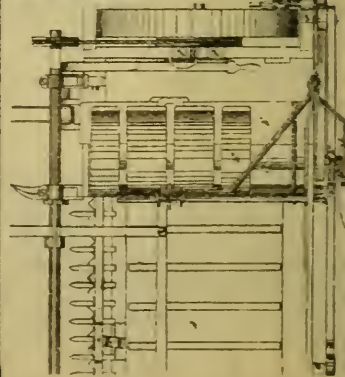
103,666, S. A. SCOTT.
SEED-SOWER



103,667, GEO. H. SELLERS.
HYDRAULIC HOUSINGS FOR ROLLS

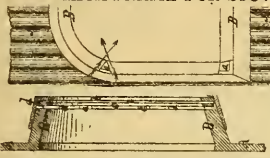
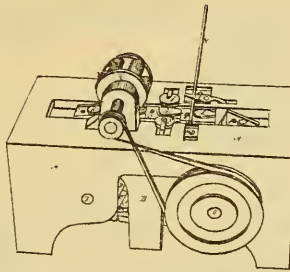
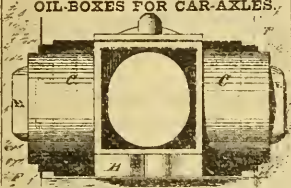
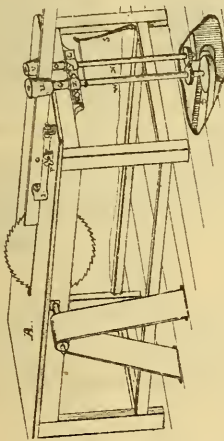
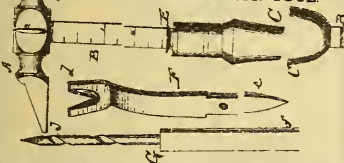
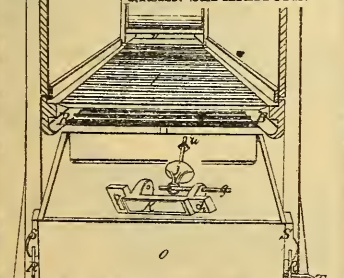
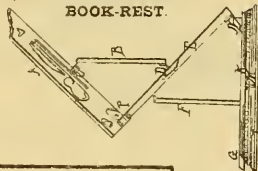
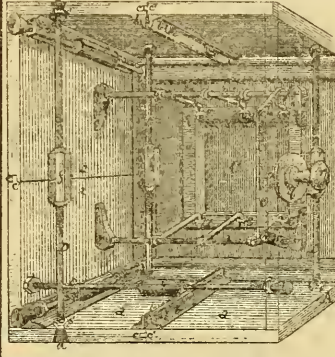


103,673, G. H. SPAULDING
GRAIN BINDER

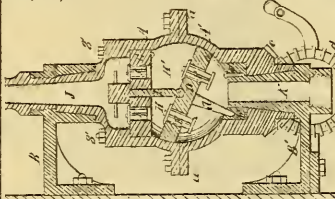
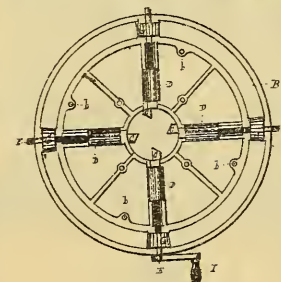
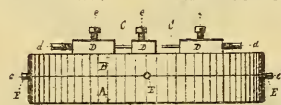
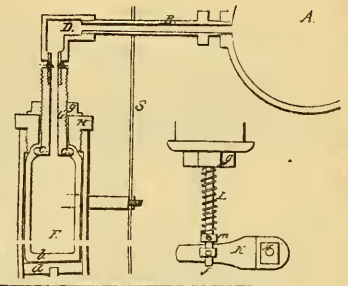
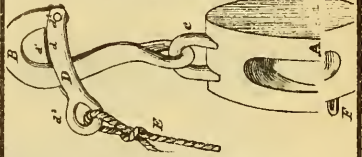
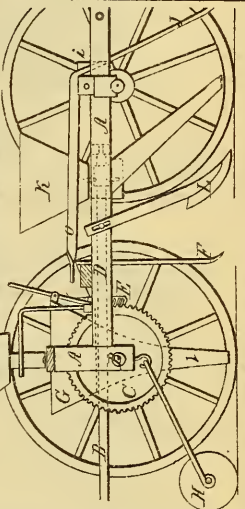


103,657,
WILLIAM W. RICHARDSON
WATER-WHEELS

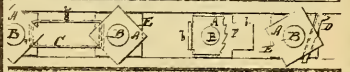
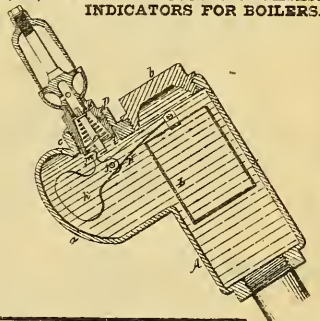
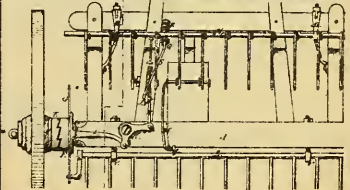


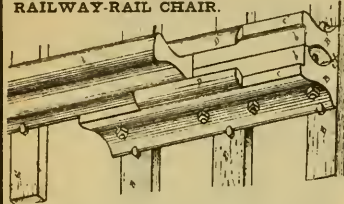
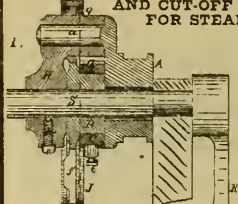
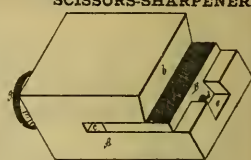
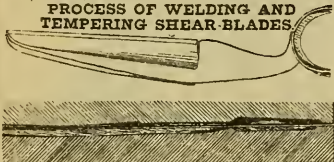
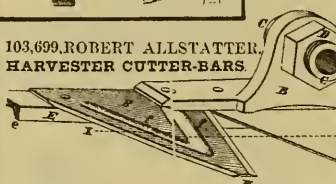
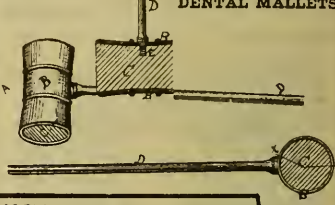
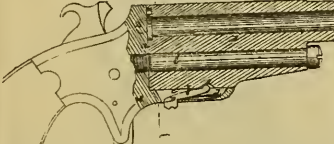
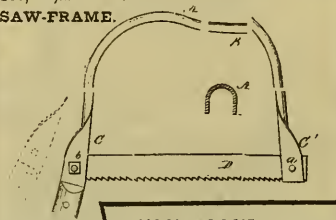
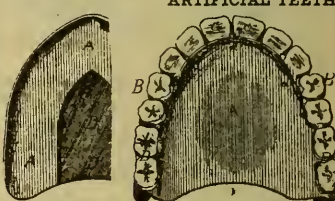
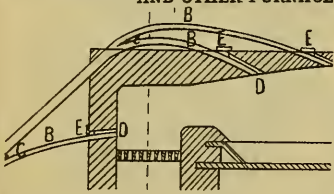
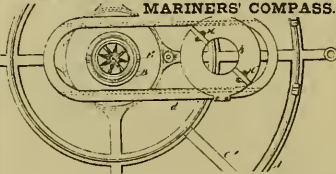
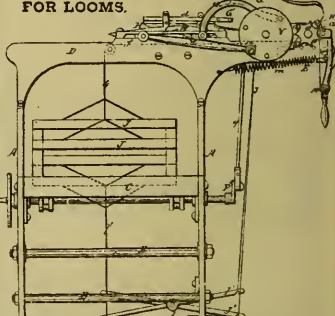
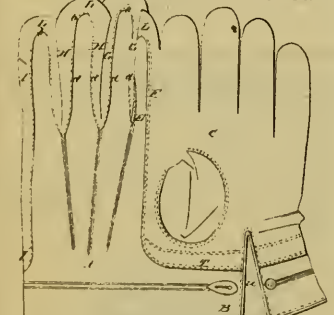
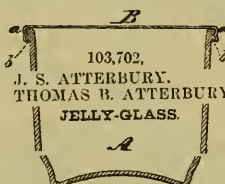
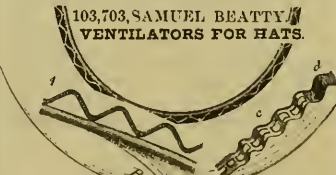
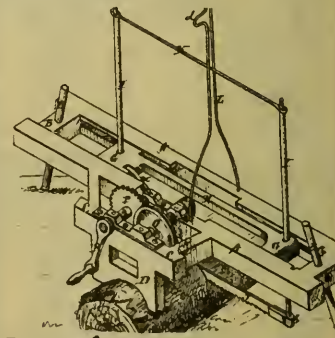
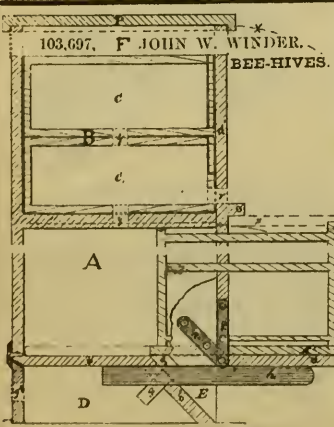
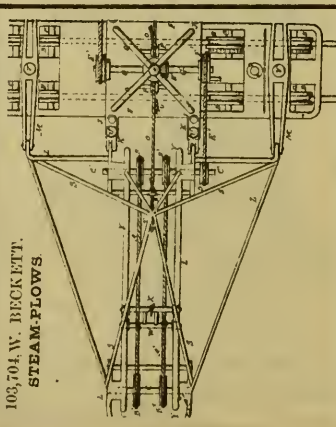
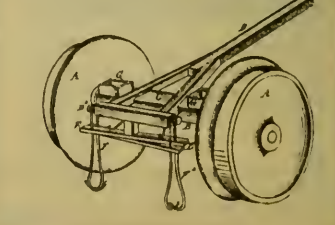
103,674, GAYLORD SHARP STANDARD.
MICA-FRAME FOR STOVES.103,675, JAMES T. STEWART.
MEDICAL COMPOUND.103,676, TIMOTHY B. STEWART.
OIL-BOXES FOR CAR-AXLES.103,677, NICHOLAS STILWELL.
SAWING-MACHINE.103,678, GEORGE W. STOCKWELL
COMBINATION TOOL.103,679, MELVIN STONE.
SAFETY WHIFFLETREE.103,680, ORRIN STONE.
GRAIN-SEPARATORS.103,681, J. G. STOWE.
MACHINE FOR MAKING HORSESHOES.103,682, CORNELIUS SULLIVAN.
BOOK-REST.103,683, T. J. SULLIVAN.
SAFES AND VAULTS.

103,684, THOMAS SWAN. ROTARY PUMPS.

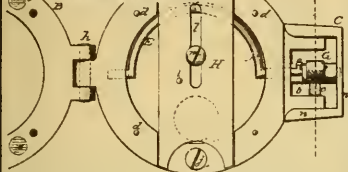
103,685, STEPHEN P. M. TASKER. DEVICE
FOR CUTTING OFF METALLIC TUBES.103,686, WILLIAM TAYLOR.
STOVE-PIPE DAMPER.103,687, HENRY THOMPSON.
TACKLE-HOOKS.103,688, JAMES F. TUCKER.
CORN AND COTTON-PLANTER.
FERTILIZER-DISTRIBUTOR. COTTON-
CHOPPER AND CULTIVATOR COMBINED.

103,689, ELYSSES B. VIDAL. LOCK-NUT.

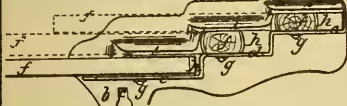
103,690, CHAS. S. WATSON. LOW-WATER
INDICATORS FOR BOILERS.103,691, DAVID H. WEAVER.
HORSE HAY-RAKES.

103,692, JOHN S. WEIMER.
RAILWAY-RAIL CHAIR.103,693, D. A. WOODBURY. REVERSING
AND CUT-OFF APPARATUS
FOR STEAM-ENGINES103,705, NATHANIEL BELCHER.
SCISSORS-SHARPENER.103,693, HERMANN WENDT.
PROCESS OF WELDING AND
TEMPERING SHEAR-BLADES103,699, ROBERT ALLSTATTER.
HARVESTER CUTTER-BARS.103,706, JULIUS A. BIDWELL.
DENTAL MALLETS103,694, F. WESSON
BREECH-LOADING FIRE-ARMS.103,700, EMANUEL ANDREWS.
SAW-FRAME.103,707, JULIUS A. BIDWELL.
ARTIFICIAL TEETH103,695, JAMES D. WHELPLEY
JACOB J. STORER.
FEEDING FUEL TO METALLURGIC
AND OTHER FURNACES.103,701, ARSON.
CORRECTING THE DEVIATION OF THE
MARINERS' COMPASS.103,708, ROBERT BLEAKIE.
HARNESS-OPERATING MECHANISM
FOR LOOMS.103,696, JOHN L. WHITTEN.
GLOVES.103,702,
J. S. ATTERBURY.
THOMAS B. ATTERBURY.
JELLY-GLASS.103,703, SAMUEL BEATTY.
VENTILATORS FOR HATS.103,709, GEORGE W. BOLL.
SAWING-MACHINES.103,697, F. JOHN W. WINDER.
BEE-HIVES.103,704, W. BECKETT.
STEAM-PISTONSWILLIAM C. BOMAR.
ANDERSON TROXLER.
103,710, RAILROAD-TIE LIFTERS.

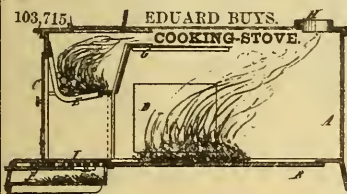
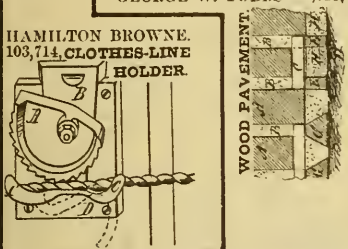
103,711, FREDERICK BRACKETT. LOCKS FOR SECURING REVENUE-STAMPS ON BEER-BARRELS.



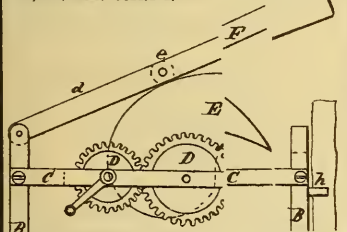
103,712, JOSHUA BRIGGS. CLOTHES-DRIER.



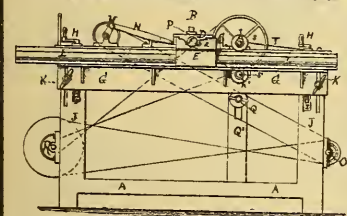
JOHN W. BROCKLEBANK. GEORGE W. TUBBS 103,713.



PORTABLE FENCE-POST DRIVER. 103,716, WM. CARNS.



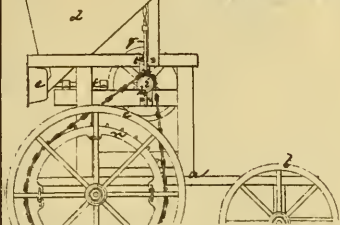
103,717, FRANK G. CHAPMAN. MACHINE FOR SAND-PAPERING MOLDINGS.



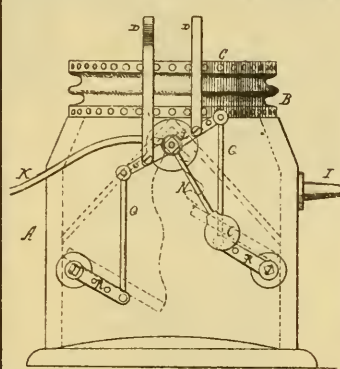
WILLIAM S COBB. WATER-COOLER. 103,718.



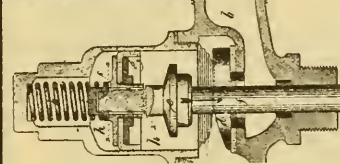
103,719, J. H. COLE. WHEEL-CARRIAGE SEED-SOWERS.



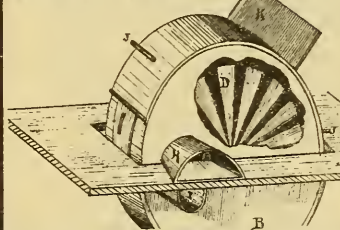
103,720, JOHN F. CORY. BLACKSMITHS' BELLOWS HENRY C. WEBB.



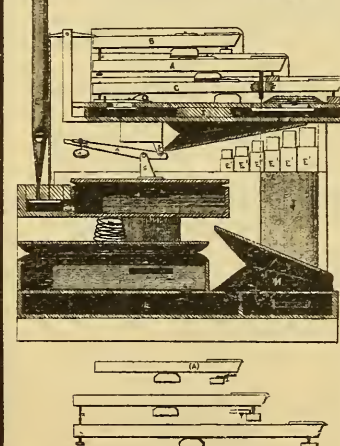
103,721, H. H. CRAIGIE. WATER-CLOSET VALVES.



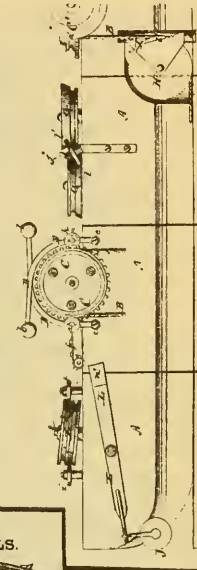
103,722, H. A. CURTIS. RAILROAD CAR-VENTILATOR.



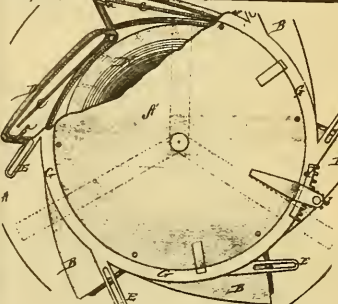
103,723, CHAS. H. DAVIE. WILLIAM JACKSON. ORGANS.



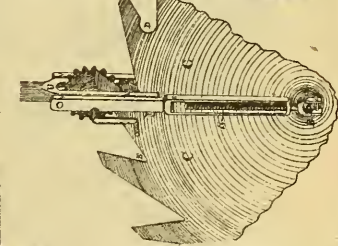
MR. OSCAR DE MESNIL. 103,724, M. EYTH. MACHINERY FOR TOWING CANAL-BOATS.



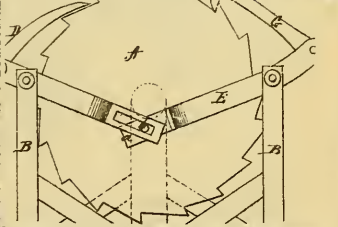
E DOUGHERTY. WATER-WHEELS. 103,725.



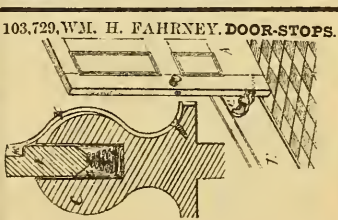
103,726, ANSON B. DOUGLAS. SAW-GUMMERS.



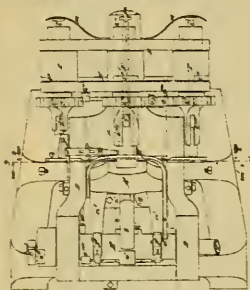
103,727, WM. T. ELLIOTT. RATCHET-POWER.



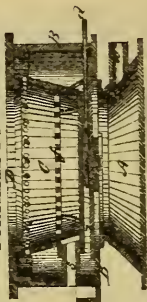
103,728, H. ENDEMANN, M. D. PREPARING AND PRESERVING MEAT.



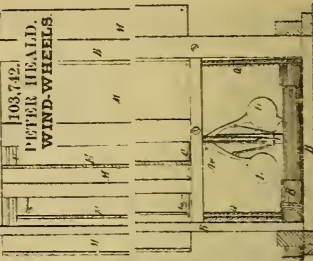
103,730, DAVID J. FARNER.
MACHINE FOR MAKING NAILS.



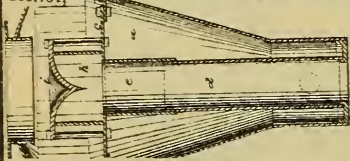
103,736, SETH GREGORY.
PORTABLE FURNACE.



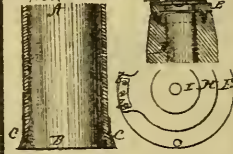
103,737, THOS. W. GRINTER.
FOUNTAIN-PENS.



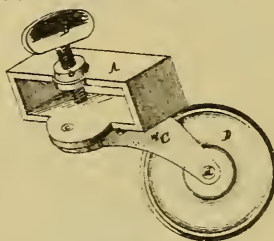
BENJAMIN P. FREEMAN.
PAT. PAYTON.
103,731. LOCOMOTIVE
SPARK-ARRESTER.



W. M. HAMILTON.
103,738, PUMPS.



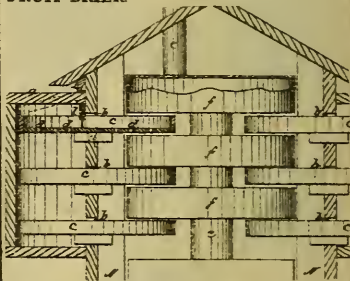
103,739, O. HANKS, TOOL-HOLDER.



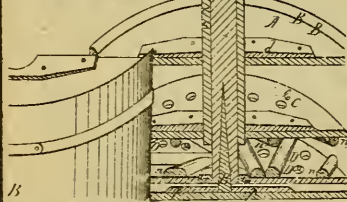
W. O. HICKOK.
103,743. RULING-MACHINES.



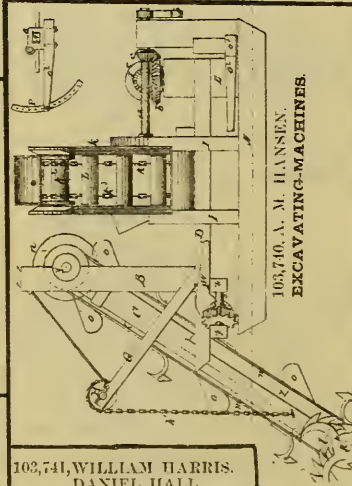
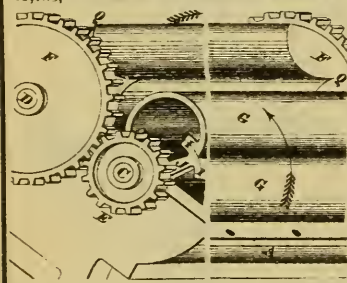
103,744. J. HILDEBRAND
FRUIT DRIER.



103,732.
ISAIAH M. FURBISH.
WASHING-MACHINE.

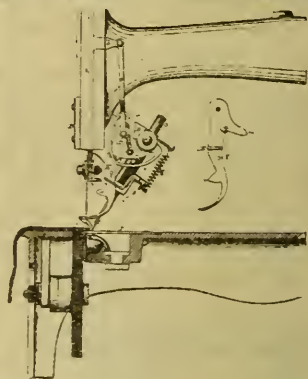


103,733, JAMES N. GILCHRIST. BLOWERS

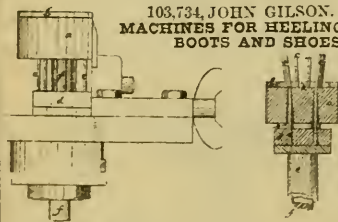


103,740, A. M. HANSEN.
EXCAVATING-MACHINES.

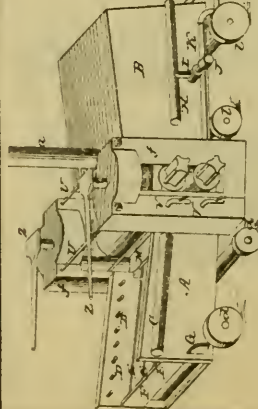
103,745. E. HOWARD AND
W. H. JACKSON
BUTTON HOLING AND OVERSEAMING
ATTACHMENT FOR SEWING MACHINES.



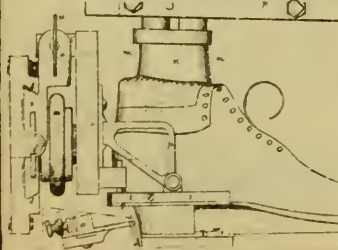
103,734, JOHN GILSON.
MACHINES FOR HEELING
BOOTS AND SHOES



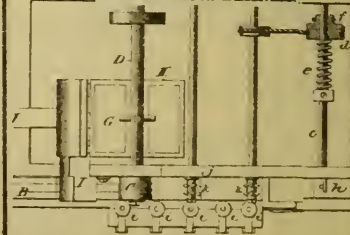
103,741, WILLIAM HARRIS.
DANIEL HALL.
APPARATUS FOR ENAMELING
SHEET-IRON.



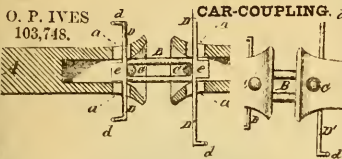
103,735, CHARLES W. GLIDDEN.
MACHINE FOR HEELING BOOTS.



103,746, PHILIP HUFELAND.
MACHINE FOR GROOVING
LEAD-PENCIL BLANKS.

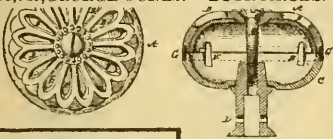


103,747, FRANKLIN TRUMAN HUNTOON.
COMPOUND FOR CLEANING CLOTH
AND OTHER FABRICS

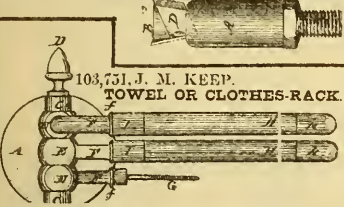
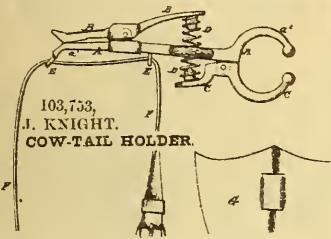
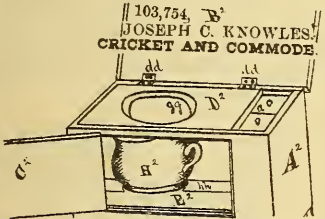
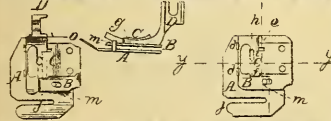
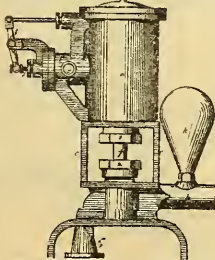
O. P. IVES
103,748.

CAR-COUPLING.

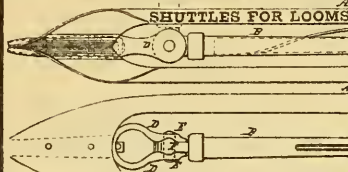
103,749, GEORGE JONES. DOOR-KNOBS.



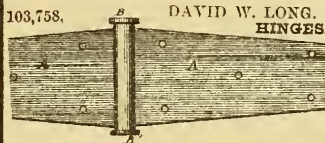
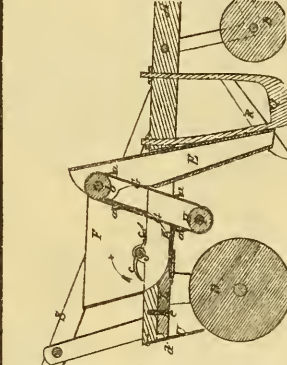
DEDRICK JORDAN.

103,750. CUTTERS
FOR DOVETAILING-MACHINES103,751, J. M. KEEP.
TOWEL OR CLOTHES-RACK.103,752, J. M. KEEP.
TWINE-HOLDER103,753,
J. KNIGHT.
COW-TAIL HOLDER.103,754, X
JOSEPH C. KNOWLES
CRICKET AND COMMODE103,755, ARTHUR M. LESLIE. RUFFLING
ATTACHMENT FOR SEWING-MACHINEWILLIAM LIVINGSTONE. STEAM-PUMP.
103,756,

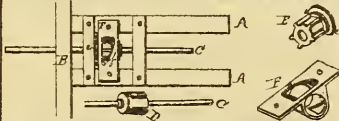
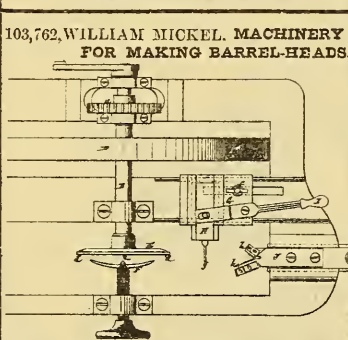
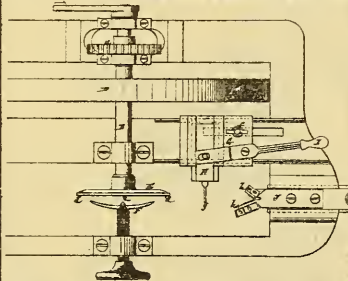
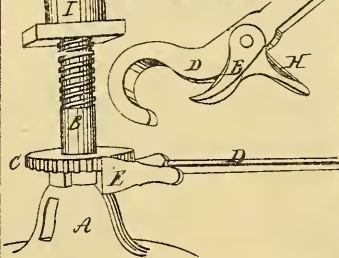
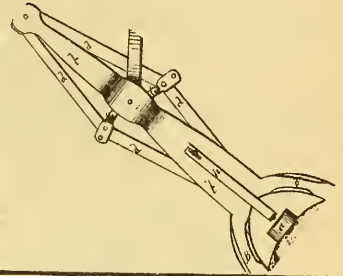
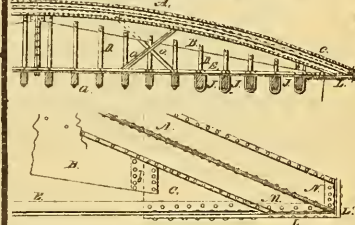
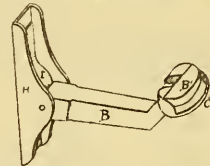
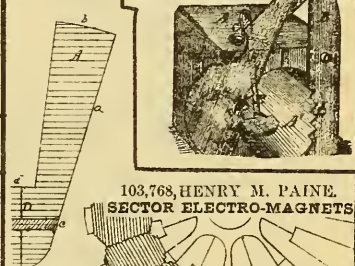
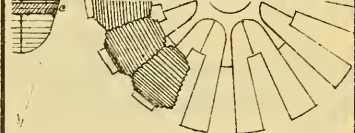
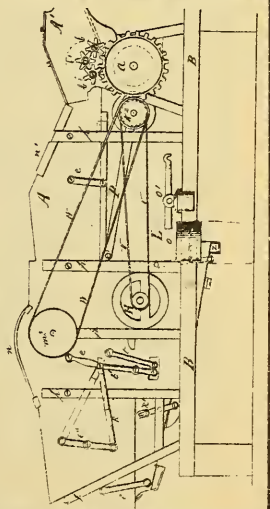
103,757, JOSEPH LOFVENDAHL.



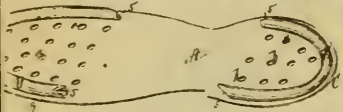
SHUTTLES FOR LOOMS

103,758, DAVID W. LONG.
HINGES.103,759, JAMES LYTCH.
COTTON-SEED PLANTERS.

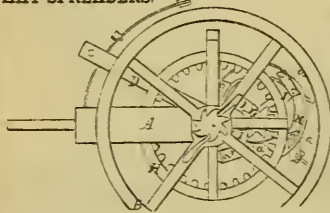
103,760, F. H. MANN. SEED-SOWER.

103,761, WM. MARSDEN.
COMPOUND FOR CATTLE-FOOD.103,762, WILLIAM MICKEL. MACHINERY
FOR MAKING BARREL-HEADS.103,763, HENRY W. MILLAR.
RATCHET-LEVER.103,764, GARDNER C. MILLER.
HAND PUNCHING-MACHINE103,765, THOS. W. H. MOSELEY.
TUBULAR-ARCH BRIDGES103,766, CHARLES K. OSBORN.
SHUTTER-FASTENERS.D. J. OWEN
103,767.
ANIMAL TRAP.103,768, HENRY M. PAINE.
SECTOR ELECTRO-MAGNETS103,769, F. W. PAMPEL.
THRASHING-MACHINES.

103,770, EDWARD W. PARISH.
INNER SOLE FOR BOOTS AND SHOES



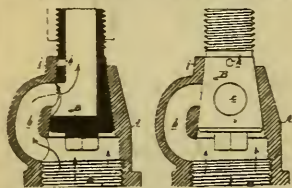
103,771, HENRY L. PERKINS.
HAY-SPREADERS.



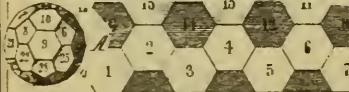
103,772, MANASSEH PETTENGILL.
METAL TIPS FOR BOOTS AND SHOES.



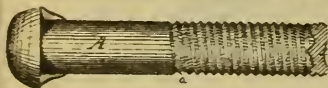
103,773, SOLOMON PFLEGER.
VALVE-COCKS FOR HYDRANTS.



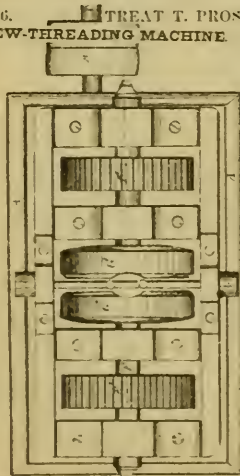
103,774, HIRAM PLUMB.
APPARATUS FOR PLAYING GAMES.



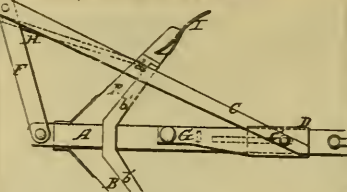
103,775, TREAT T. PROSSER.
NUT-LOCK BOLT.



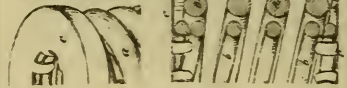
103,776, TREAT T. PROSSER.
SCREW-THREADING MACHINE.



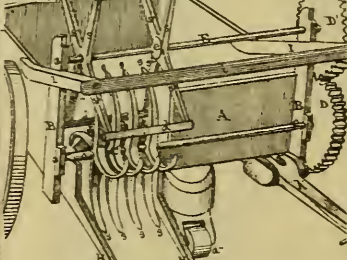
103,777, W. S. RABB, PLOWS.



103,778, FREDERIC W. RHINELANDER.
CAR-SPRINGS.



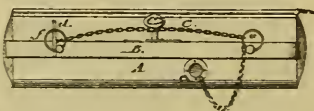
JACOB E. RICE, CORN-HARVESTER
103,779



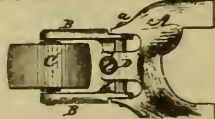
103,780, ROBINSON BUTTER.
NUT-LOCKING WASHERS.



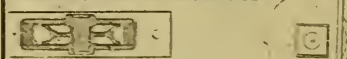
103,781, J. B. SARGENT.
LOCK FOR TRAVELING-BAGS.



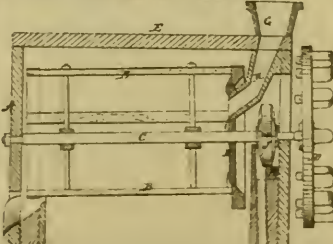
103,782, JOSEPH B. SARGENT.
SEWING-MACHINE CASTERS.



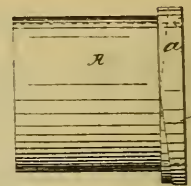
103,783, Z. E. SAWTELLE.
PULLEYS FOR WINDOW-SASH



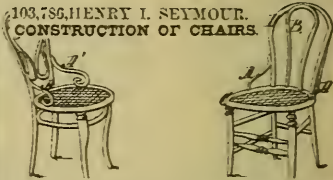
103,784, LOUIS C. A. SCHMIDT.
FLOUR-BOLTING APPARATUS.



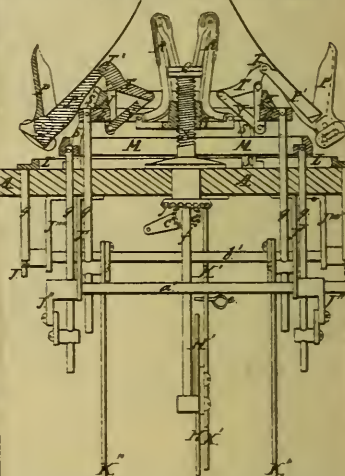
103,785, GEO. SEWELL, HOSE-COUPPLINGS.



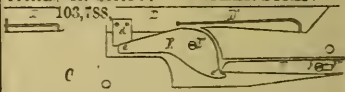
103,786, HENRY I. SEYMOUR.
CONSTRUCTION OF CHAIRS.



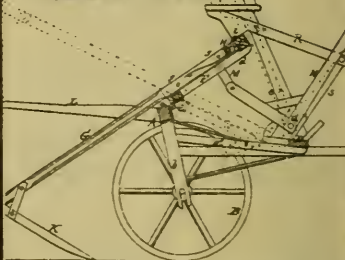
103,787, JULIUS SHELTON.
HAT-BLOCKING MACHINES.



MILES H. SKIFF, WEATHER-STRIP



103,789, SOLOMON P. SMITH.
HORSE HAY-RAKES.



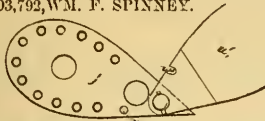
103,790, LUKE S. SNEDIKER.
APPARATUS FOR RECTIFYING SPIRITS.



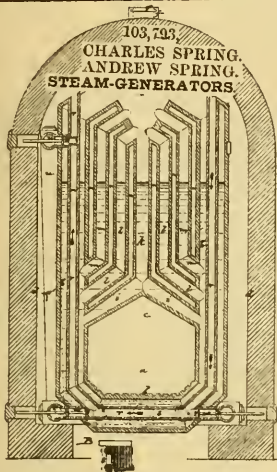
103,791, W. C. SPELLMAN, BROOM-HEAD.



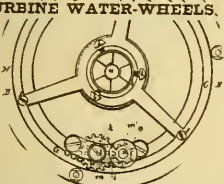
BOOT AND SHOE HEELING MACHINE.
103,792, WM. F. SPINNEY.



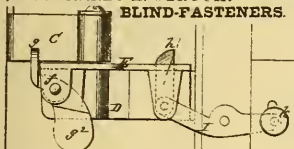
103,793,
**CHARLES SPRING.
ANDREW SPRING.
STEAM-GENERATORS.**



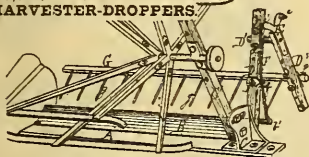
103,794, **BRADFORD STETSON.**
TURBINE WATER-WHEELS.



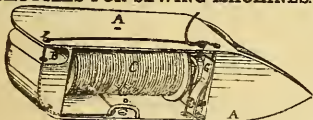
103,795, **CHARLES E. STRUCK.**
BLIND-FASTENERS.



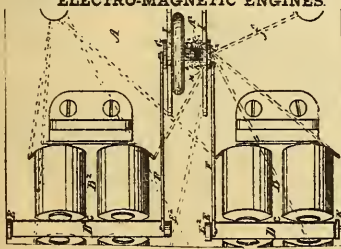
103,796, **J. OSCAR TABER.**
HARVESTER-DROPPERS.



103,797, **WM. H. THAYER.**
SHUTTLES FOR SEWING-MACHINES.



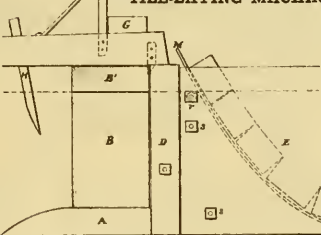
103,798, **J. P. TIRRELL.**
ELECTRO-MAGNETIC ENGINES.



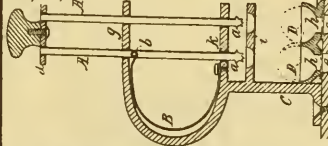
103,799, **C. TOPPAN.**
**TREATING FABRICS TO RENDER THEM
WATER PROOF.**

103,800, **WM. P. VAN DEURSEN.**
**COMPOSITION FOR
EXTINGUISHING FIRES.**

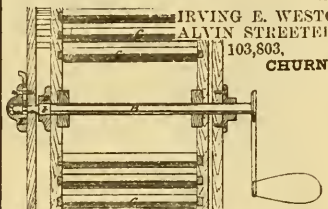
103,801, **OLIVER W. VOORHIS.
SMITH H. MAPES.
WILLIAM M. VOORHIS.**
**COMBINED DITCHING AND
TILE-LAYING MACHINE.**



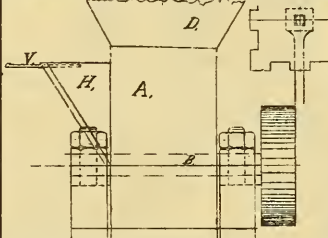
JOHN N. WEBSTER. CHERRY-STONER.
103,802,



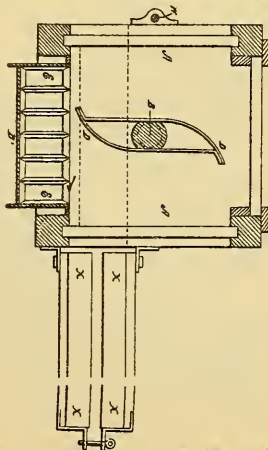
**IRVING E. WESTON.
ALVIN STREETER.**
103,803,
CHURNS.



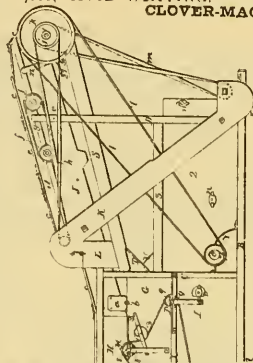
103,804, **JAMES D. WHELPLEY.**
JACOB J. STORER.
**FEEDING PULVERIZED FUEL TO
METALLURGIC AND OTHER FUR-
NACES.**



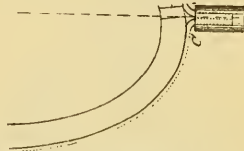
103,805, **FRANKLIN WHITCOMB.**
BRICK-MACHINE



103,806, **DAVID WHITING.**
CLOVER-MACHINES.



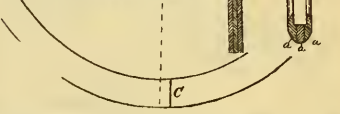
103,807, **EDWARD P. WILLIAMS.
GEO. H. CHINNOCK.**
HAND TOILET-MIRROR FRAME.



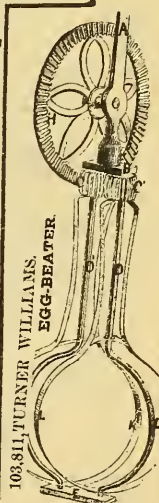
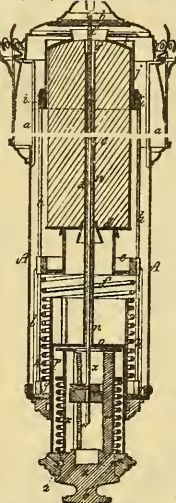
103,808, **EDWARD P. WILLIAMS.
GEO. H. CHINNOCK.**
HAND TOILET-MIRROR FRAME.



EDWARD P. WILLIAMS.
GEO. H. CHINNOCK.
**TOILET-MIRROR AND
103,809, OTHER FRAMES.**

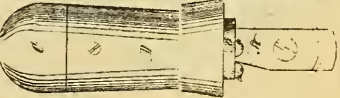


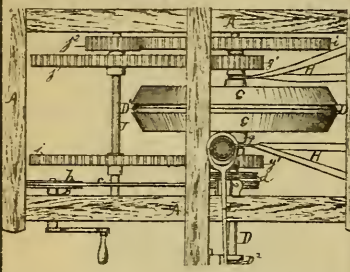
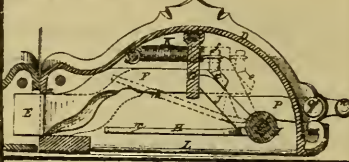
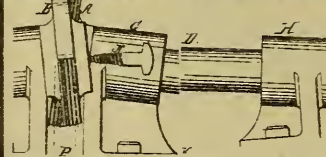
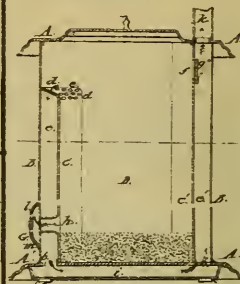
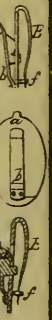
**THOMAS SCOTT WILLIAMS.
FREEMAN AUGUSTUS TABER**
103,810, **CANDLE-LAMPS.**



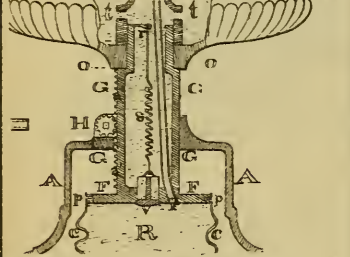
103,811, **TURNER WILLIAMS.**
EGG-BEATER.

103,812, **RICHARD A. WOODBERRY.**
HANDLE FOR "EDGE-KEYS."

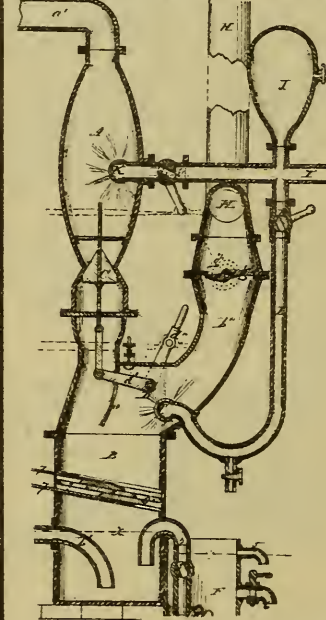
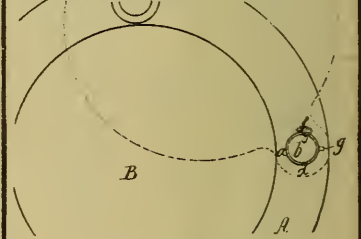
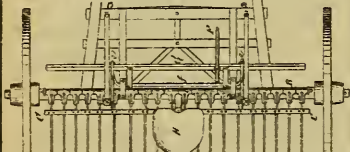


103,813. AMOS W. WOODWARD.
WATER-GOVERNOR.103,819. JOHN H. VICKERS.
DOOR-LATCHES3,998. JOHN COCHRANE.
MACHINE FOR FORGING OR ROLLING
SCREW-THREADS UPON METAL BOLTS.4,004. JOHN M. FRENCH.
HEATING-STOVE.4,003. GEORGE C. TAPP.
TWINE-CUTTER.

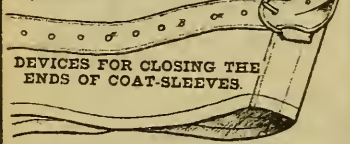
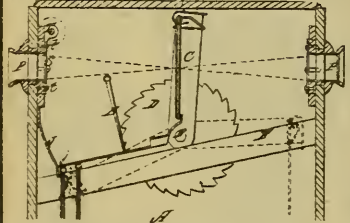
103,814. ARTHUR P. YATES. FOUNTAINS.



3,999. JOHN HOUTT. STEAM-CONDENSERS

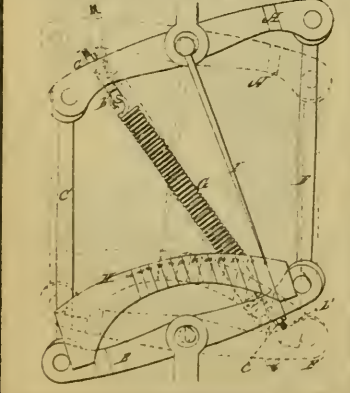
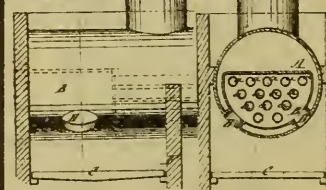
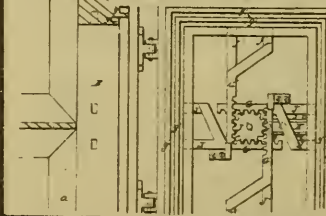
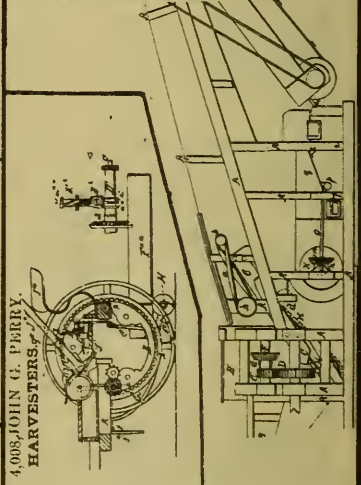
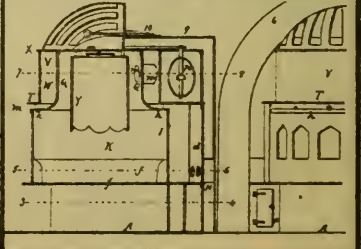
4,005. M. T. HITCHCOCK.
CAR-VENTILATOR.4,006. D. G. LITTLEFIELD.
COVER FOR STOVES.103,815. ELI ZIMMERMAN.
HORSE HAY-RAKES.

103,816. HENRY F. HERKNER.

103,817. SILAS T. JENNINGS.
BOX STEREOSCOPES.

103,818. ANDREW MORSE.

SPRING WEIGHING APPARATUS.

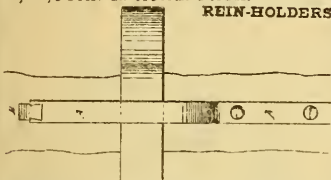
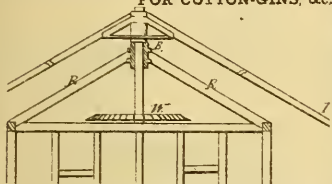
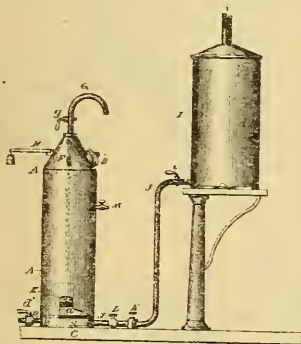
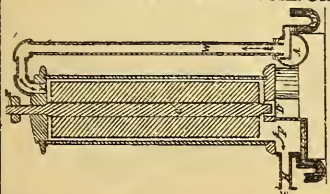
4,000. WILLIAM LOWE.
STEAM-GENERATORS4,001. F. H. WILLIAMS.
CONSTRUCTION OF SAFES.4,002. MARY P. CARPENTER.
NEEDLE FOR SEWING-MACHINE.4,007.
J. O'FERRALL AND T. L. DANIELS.
THRASHING MACHINE.DAVID STUART.
RICHARD PETERSON.
SCREENS FOR BASE-BURNING
FIRE-PLACE HEATERS

ILLUSTRATIONS OF PATENTS

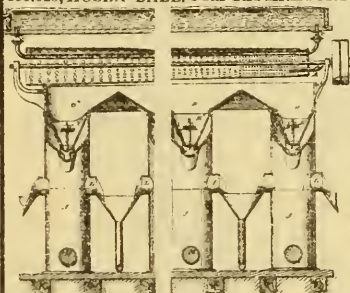
ISSUED FROM

THE UNITED STATES PATENT OFFICE

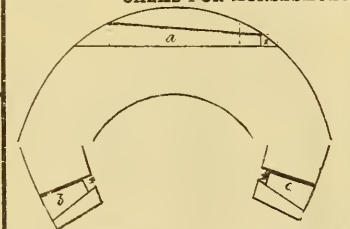
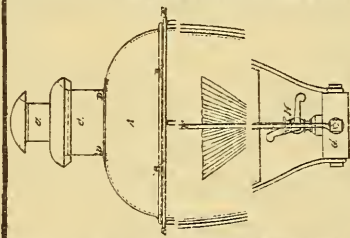
JUNE 7, 1870.

103,820, JOHN R. ACHENBACH.
REIN-HOLDERS.103,821, JAS. M. ALBERTSON.
CONSTRUCTION OF HORSE-POWER
FOR COTTON-GINS, &c.103,822, THOMAS ALMOND.
SKATE FASTENING.103,823, JOHN H. ARCHER.
DRAWING OFF TALLOW, LARD, &c.,
FROM RENDERING-TANES.103,824, AVERY RABBITT.
WILLIAM W. BINNY.
CONDENSERS FOR THE
MANUFACTURE OF COAL-GAS.

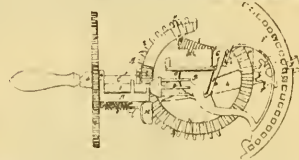
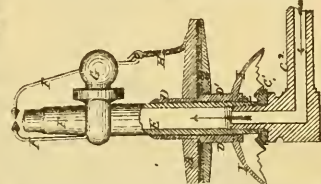
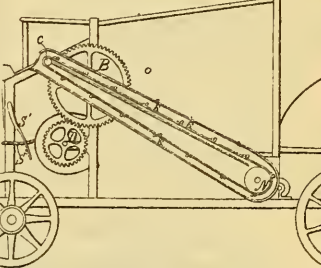
103,825, HOSEA BALL. ORE-SEPARATORS.



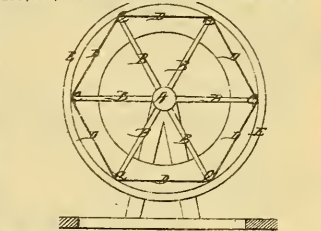
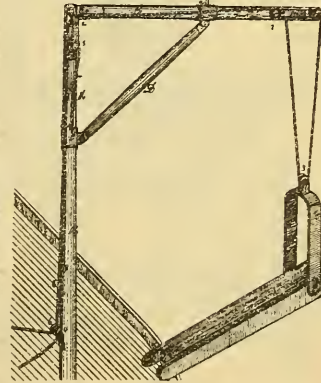
103,826, C. R. BANCROFT. LETTER-BOXES.

103,827, J. D. BARNUM.
CALKS FOR HORSESHOES103,828, JOSEPH W. BARTLETT.
LANTERNS FOR STREETS.

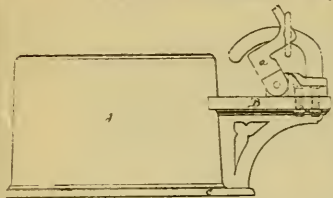
103,829, C. BASSETT. TYPE-CABINETS.

103,830, ASAHEL G. BATCHELDER.
MACHINE FOR PARING
FRUIT AND VEGETABLES.103,831, W. W. BATCHELDER.
APPARATUS FOR LIGHTING
GAS BY ELECTRICITY.103,832, D. C. BAUGHMAN.
THRASHING-MACHINES.

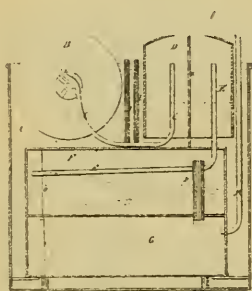
103,833, W. H. BERDAN. MILL-BOLTS.

103,834, HANNIBAL S. BLOOD.
DERRICK OR HOISTING-CRANE.

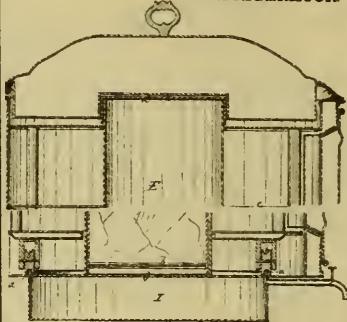
103,835, DANIEL BOWKER.
POST FOR PEGGING-JACKS.



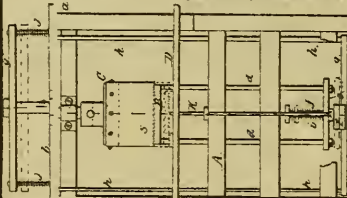
103,836, DAVID BOYLE.
PNEUMATIC GAS-MACHINES.



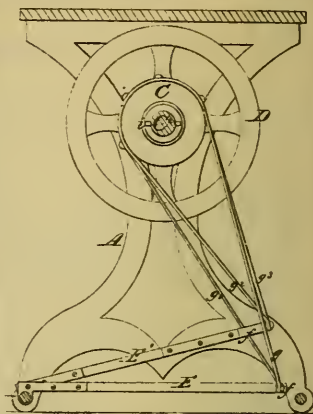
103,842, JAMES C. CAMPBELL.
REFRIGERATOR.



103,843, JAMES CHASE.
SAWING-MACHINE.



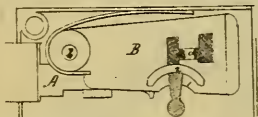
103,847, E. COWLES. MECHANICAL
MOVEMENT FOR SEWING MACHINES.



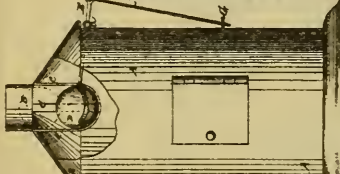
103,837, JAMES BRADY. DOOR-KEYS.



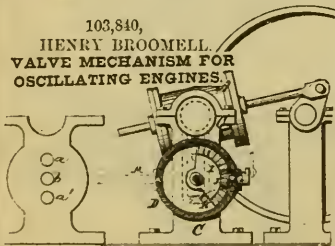
103,838, JAMES BRADY. LOCKS.



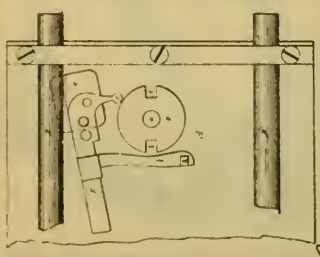
103,839, ADOLPH BRASE,
LEMUEL SALLADEY.
RAILROAD-CAR STOVE.



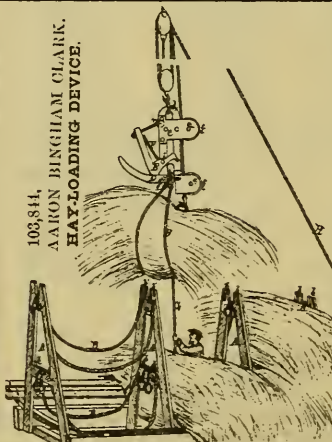
103,840,
HENRY BROOMELL.
VALVE MECHANISM FOR
OSCILLATING ENGINES.



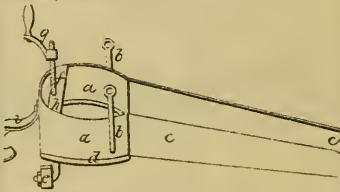
103,841, STEPHEN J. BURTON.
BOLTING DEVICES FOR SAFES



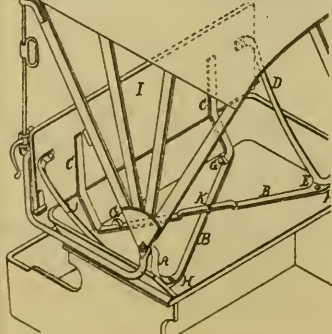
103,844,
AARON BINGHAM CLARK.
HAY-LOADING DEVICE.



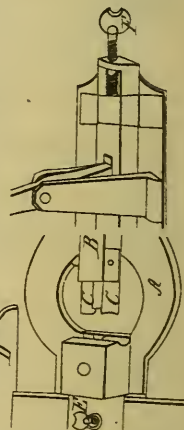
103,845, DAVID COPE. CASK-FILLERS.



103,846, A. MORRELL CORY, M. D.
BUGGY-TOP BEDS.



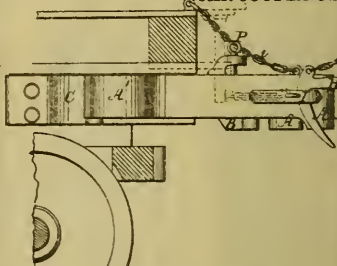
103,848, BIRAM C. DAVIS.
MACHINE FOR TRIMMING BLIND-RODS.



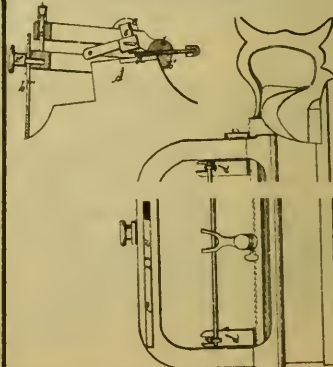
103,849,
JOHN W. DAYTON.
ROSETTES.



103,850, T. W. DEFREES.
CAR-COUPPLINGS.

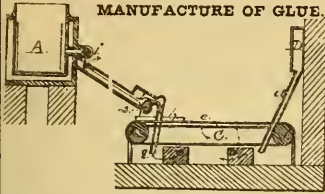


103,851, J. T. DICKEY SAW-SET.



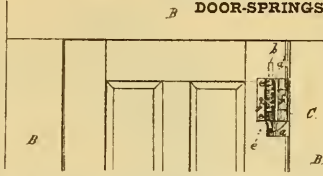
103,852, ANDREW DIETZ.

MANUFACTURE OF GLUE.



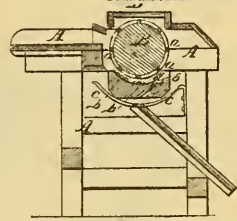
103,859, JOHN T. FOLWELL.

DOOR-SPRINGS.



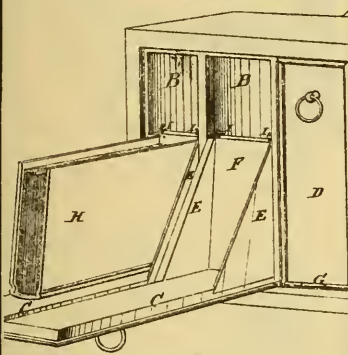
103,866, JOHN S. FULTON.

THRASHING-MACHINE.



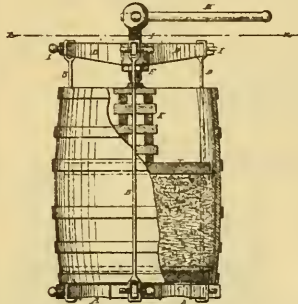
103,853, ROBERT L. DODGE.

BOOK-REPOSITORY.



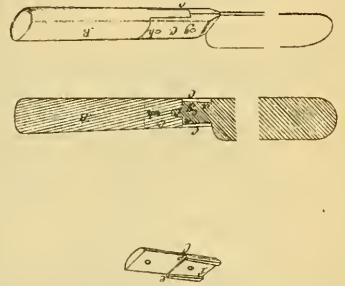
103,860, WM. S. FORD.

PORTABLE TOBACCO-PRESS.



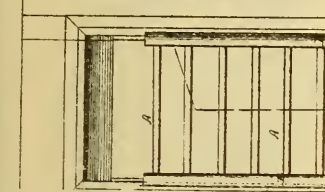
103,867, J. W. GARDNER.

ATTACHING HANDLES TO CUTLERY.



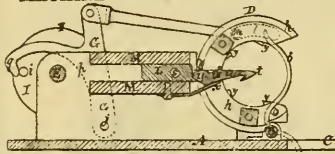
103,854, THOMAS DONATO.

WINDOW-BLINDS.



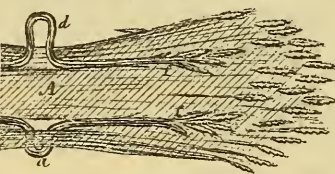
103,861, T. FOWLER.

MACHINE FOR BINDING GRAIN.

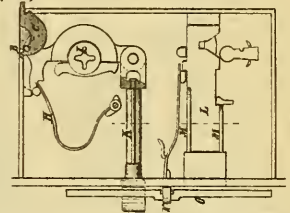
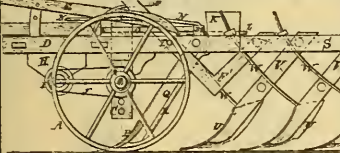


103,862, T. FOWLER.

METHOD OF BINDING GRAIN.



103,863, JOHN GERARD. LOCKS.

103,855, J. P. EDDLEMAN. COMBINED
SOWER PLANTER CULTIVATOR
SCRAPER AND GANG-PLOW.

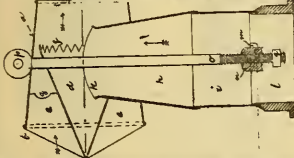
103,863, E. F. FRENCH.

COVER FOR SEWING-MACHINES.



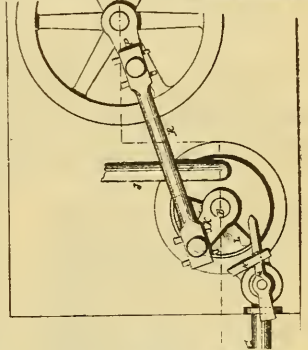
103,856, JACOB EDSON.

VENTILATOR OR COWL.



103,869, SAM'L D. GILSON.

ROTARY ENGINE.



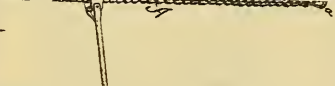
103,857, PHILIPP M. ERNST.

INSOLE FOR BOOTS AND SHOES.



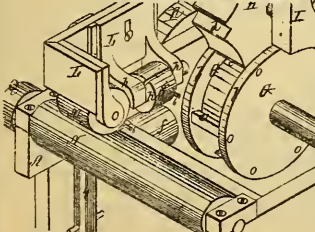
103,864, HENRY S. FROST.

UMBRELLA-RIBS.



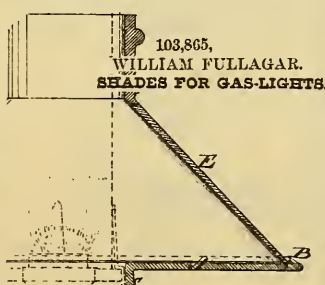
103,858, LUTHER W. FELT.

SPINNING-MACHINES.

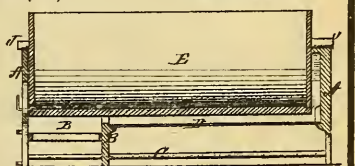


103,865, WILLIAM FULLAGAR.

SHADES FOR GAS-LIGHTS.

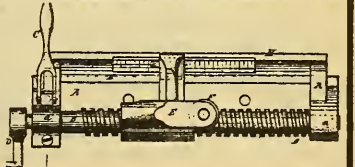


103,870, MYRON GORE. BOILERS.

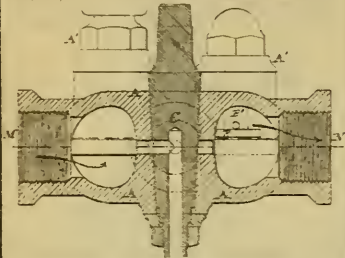


103,871, CYRUS E. GRANDY.

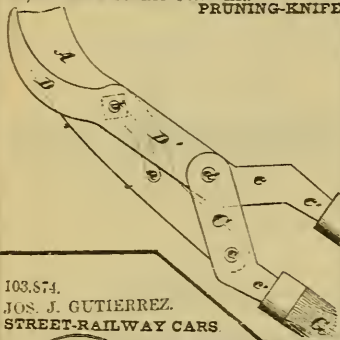
HEAD-BLOCKS FOR SAW-MILLS.



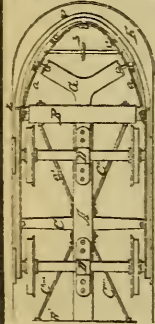
103,872, D. A. GREENE. CHECK-VALVES



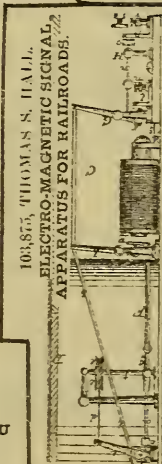
103,873, MANASSEH GROVER. PRUNING-KNIFE.



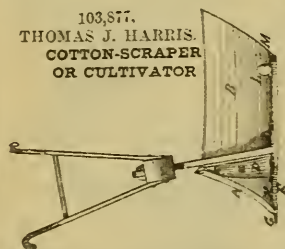
103,874, JOS. J. GUTIERREZ. STREET-RAILWAY CARS



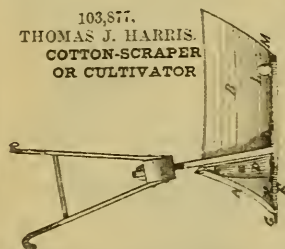
103,875, THOMAS S. HALL. ELECTRO-MAGNETIC SIGNAL APPARATUS FOR RAILROADS.



103,876, H. J. HAMILTON. COMPOUND TROCHE OF BUCHU



103,877, THOMAS J. HARRIS. COTTON-SCRAPER OR CULTIVATOR

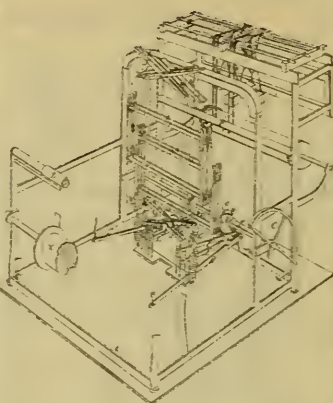


103,878, BENJAMIN W. HEALEY. IRON TENDER-FRAME.

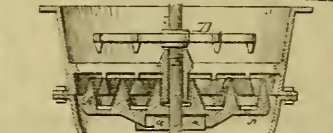


103,879, NICHOLAS HEINTZELMAN. PROCESS FOR MAKING MOLDS FOR CASTINGS OF ALTO-RELIEVO FIGURES.

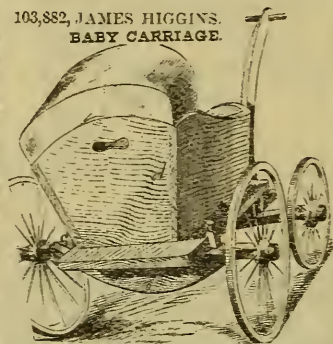
103,880, JOHN JACOB HERBERT. LOOMS.



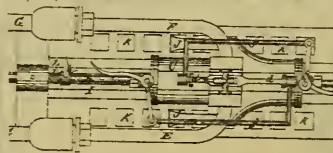
103,881, LEWIS N. HERMAN. BARK-MILL



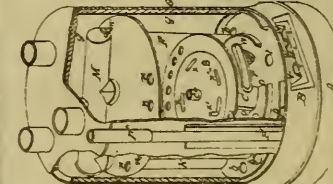
103,882, JAMES HIGGINS. BABY CARRIAGE.



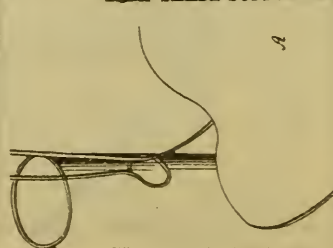
103,883, THOMAS HILL. STEAM-RAMS.



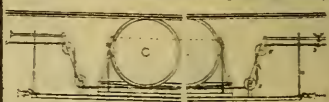
103,884, ROBERT HILLSON. HEATING-STOVE.



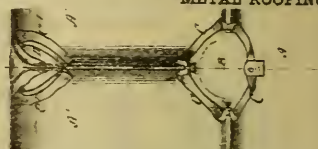
103,885, EDWARD W. HOLT. LAMP-SHADE SUPPORTERS.



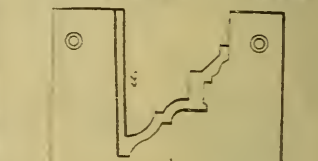
103,886, THOMAS HOPPER. HATFIELD HOPPER. CHANDLER C. COATS. RAILWAY CAR-BRAKES.



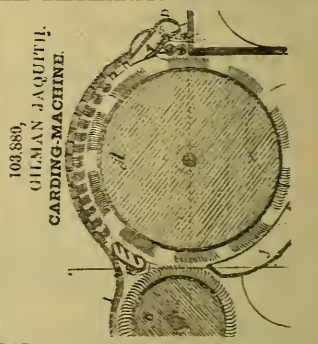
103,887, SEYMOUR HUGHES. METAL ROOFING.



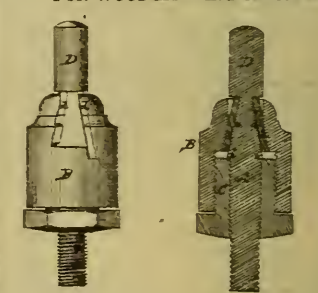
103,888, JAMES L. JACKSON. PATTERNS FOR CASTINGS.



103,889, GILMAN JAQUITH. CARDING-MACHINE.

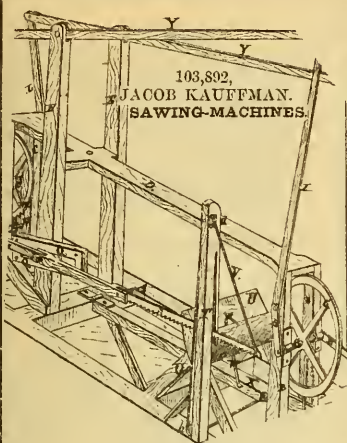


103,890, DEDRICK JORDAN. CUTTERS FOR WOOD-MOLDING MACHINES.

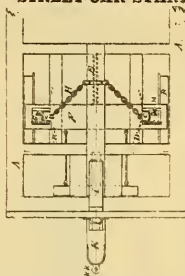


103,891, JOHN W. JORDAN. MOTIVE MECHANISM FOR SEWING-MACHINES.

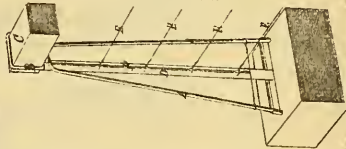




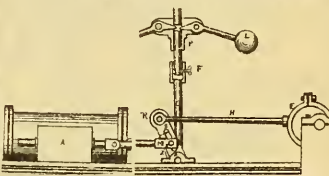
103,897, BENJAMIN LEPPER. STREET-CAR STARTERS.



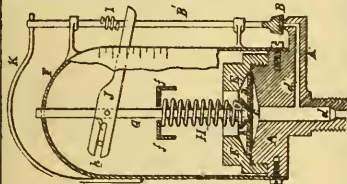
103,903, L. E. LOCKLING. FENCE. N. N. WHITAKER.



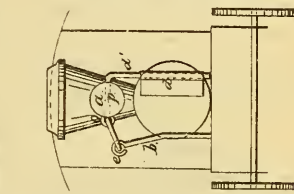
103,904, G. E. LONG. VARIABLE CUT-OFF VALVE-GEAR.



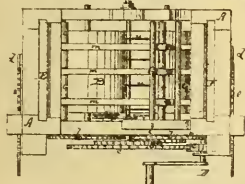
103,893, ARTEMAS A. KENT. PRESSURE-GAUGE AND SAFETY-VALVE.



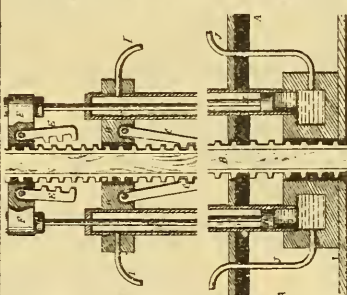
103,905, ROGER W. LOVE. LOCOMOTIVE HEAD-LIGHTS.



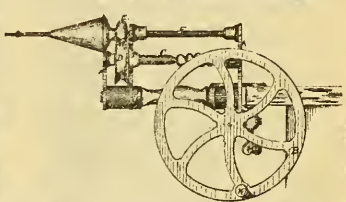
103,894, WILLIAM ANDERSON KERR. PRINTING-PRESSES.



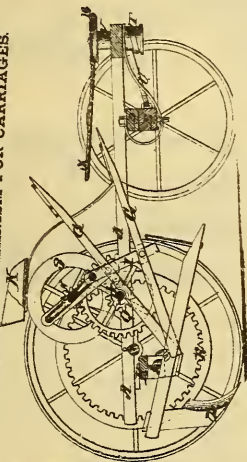
103,899, SAMUEL LEWIS. SUBMARINE DRILLING APPARATUS.



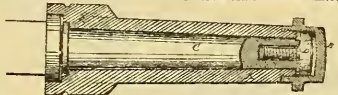
103,906, WM. H. MAIN. HAND-SPINNING MACHINE.



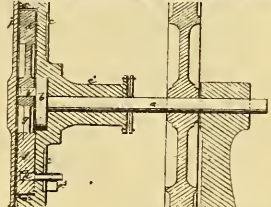
103,895, GEORGE KILNER, FRANCES H. SIMMONS. MOTIVE MECHANISM FOR CARRIAGES.



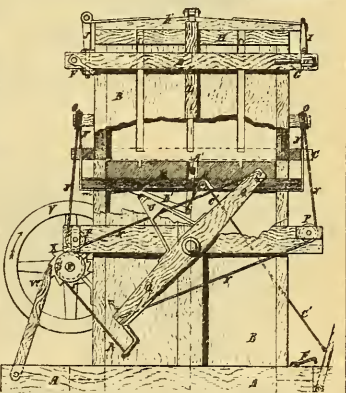
103,900, LOMAX LITTLEJOHN. CARRIAGE-AXLES.



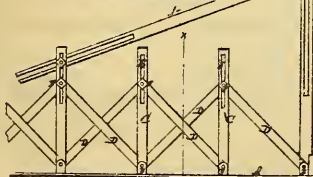
103,901, JOHN LOADER. PACKING FOR ROTARY ENGINES.



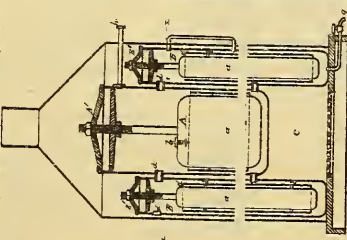
103,907, E. J. MARSTERS. BALING-PRESSES.



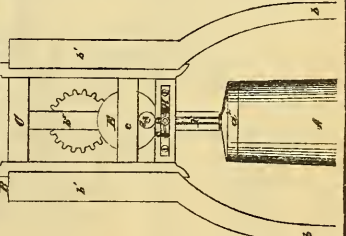
103,896, STEPHEN R. KIRBY. ADJUSTABLE CURVE FOR USE OF DRAUGHTSMEN.



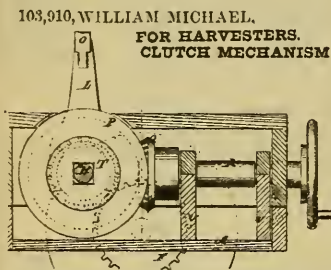
103,902, JOHN LOADER. WILLIAM HENRY CHILD. STEAM-GENERATORS.



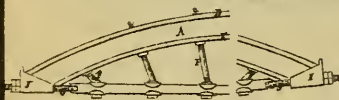
103,908, HAMILTON B. McFALL. CHURNS.



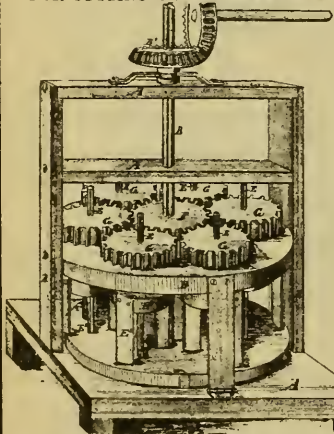
103,909, PETER McMANUS.
GEO. W. LATIMER.
PASTE FOR POLISHING METALS.



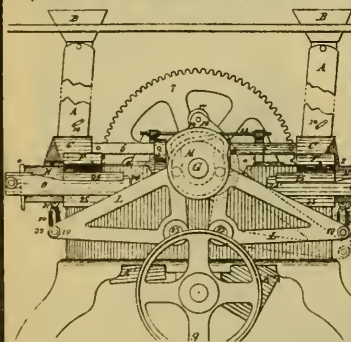
103,911, MAHLON MILLER.
IRON BRIDGES



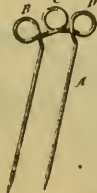
103,912, J. E. MITCHELL. MACHINE
FOR CUTTING OUT GRINDSTONES.



103,913, T. M. MITCHELL. FUEL-PRESS.



103,915,
HIAL H. NEWTON.
TIDY-PINS.

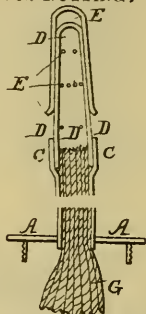


103,914,
E. S. MORTON.
NAIL-HAMMERS.



103,916, ALPHEUS P. NOYES.
DOOR-MAT.

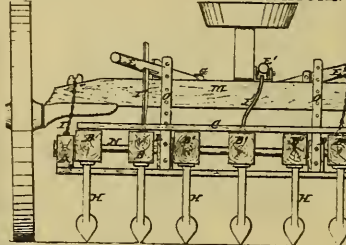
103,917, RUFUS NUTTING.



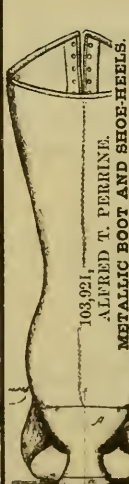
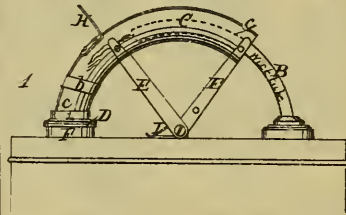
LAMP GAS-BURNER.

103,918, HENRY W. OSTROM.

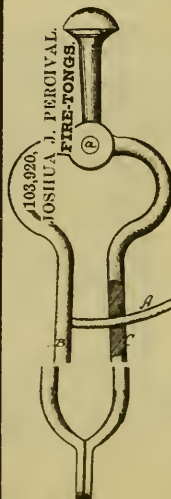
CULTIVATORS



103,919, AMOS D. OWEN.
BRAND FOR CANCELING STAMPS.

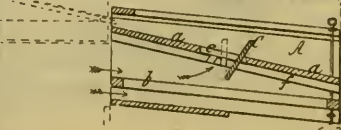


103,921,
ALFRED T. PERRINE.
METALLIC BOOT AND SHOE-HEELS.

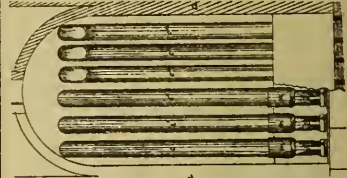


103,920,
JOSHUA J. PERCIVAL.
FIRE-TONGS.

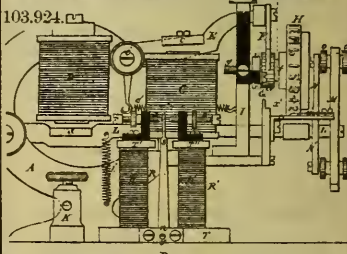
103,922, CHAUNCEY PERRY.
GRAIN-CLEANER.



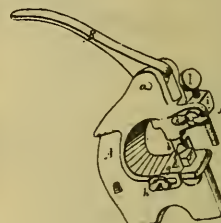
103,923, JONAS J. PIERCE.
HOT-BLAST APPARATUS.



F. L. POPE AND T. A. EDISON.
PRINTING TELEGRAPH INSTRUMENT.



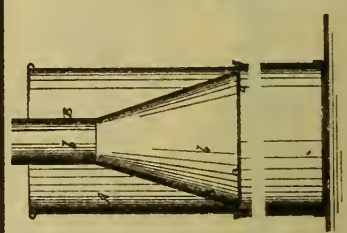
103,925, HENRY K. PORTER. SAW-SET.



103,926,
H. K. PORTER.
CALIPERS.



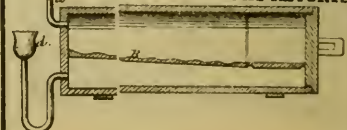
103,927, CHRISTOPHER T. PROVOST.
APPARATUS FOR
PACKING PRESERVES.

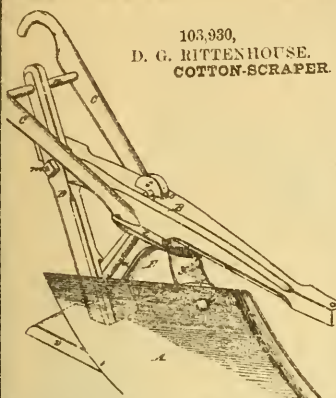


103,928, WILLIAM READ, JR.
LAMP-SHADES.



103,929, JAMES RIGBY.
PHILIP A. PALMER.
GAS-RETORTS.





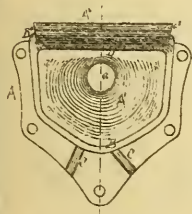
103,930,
D. G. RITTENHOUSE.
COTTON-SCRAPER.

103,931, WILLIAM H. ROGERS.
FUSE-COMPOSITION.

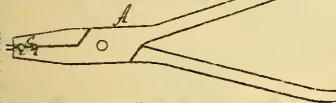
103,932, JOHN ROOT, PAPER-BOX.



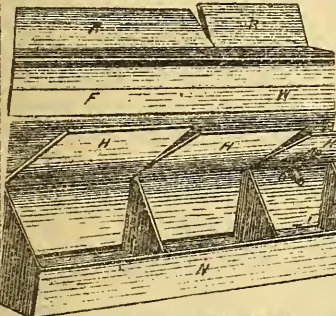
103,933, H. W. SHEPARD.
MILK-CAN HANDLES.



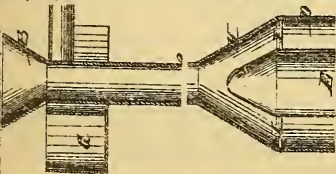
103,934, GRANVILLE T. SHEPLEY.
STUD-NIPPERS.



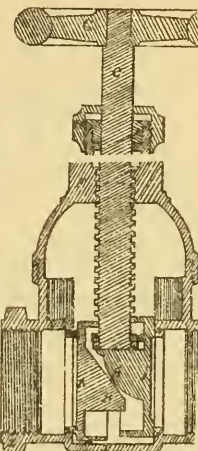
103,935, JOSEPH SHERMAN.
COMBINED FEED AND WATER-TROUGH.



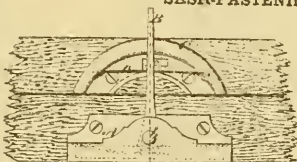
103,936, JAMES L. SMITH, CORN-DROPPER.



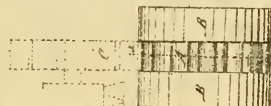
103,937, AUGUST SNYDER, VALVES.



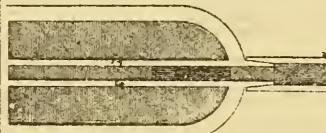
103,938, WILLIAM B. SNYDER,
ROBERT HUBBARD.
SASH-FASTENING.



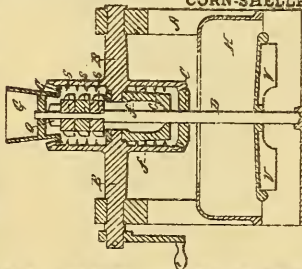
103,939, G. F. TAYLOR, GEARING FOR
CARPET-SWEEPING MACHINES.



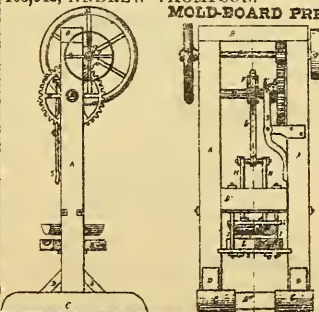
103,940, EBER THAYER.
APPARATUS FOR SPLITTING ROCK.



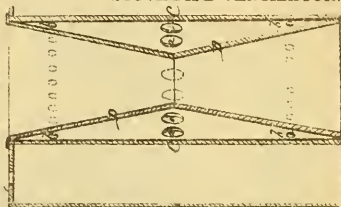
103,941, AMBROSE B. THOMPSON.
CORN-SHELLERS.



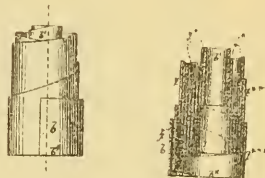
103,942, ANDREW THOMPSON.
MOLD-BOARD PRESS.



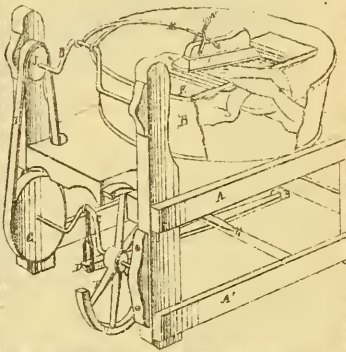
103,943, DAVID V. THRIFT.
STOVE-PIPE VENTILATOR.



103,944, JOSEPH TRENT, VOLUTE SPRING.



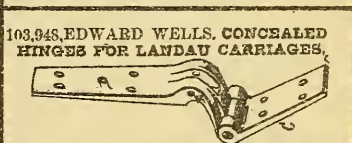
103,945, DAVID VOGT
WASHING-MACHINE.



103,946, JOSEPH B. WAKEMAN,
ALONZO M. BUSH.
COFFEE AND TEA-STEPPER.



103,947, W. H. WALENN.
THE ELECTRO-DEPOSITION OF COPPER
AND BRASS ON IRON AND STEEL.



103,948, EDWARD WELLS, CONCEALED
HINGES FOR LANDAU CARRIAGES.



103,949, WASHINGTON WENDELL.
THREAD-CONTROLLER FOR
SEWING-MACHINE.



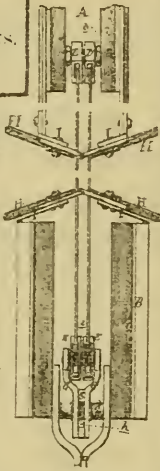
103,950, L. H. WHITNEY.
BOOT AND SHOES.



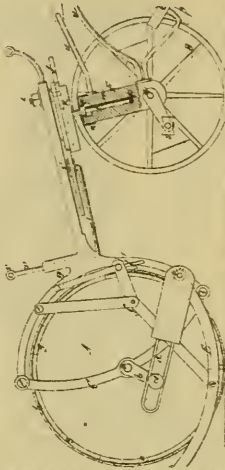
103,951,
WILLIAM J. WIGGINS,
CHARLES STOUT.
**FIRE-KINDLING
FAGOTS**



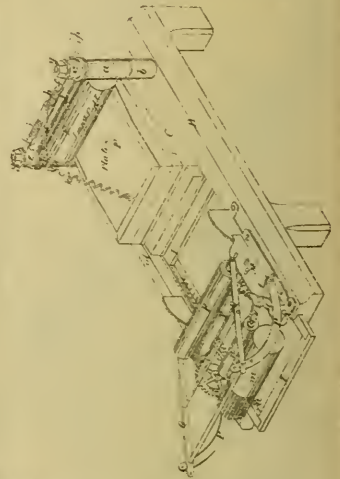
103,952, WM. M. WILKIN, SAW-MILLS



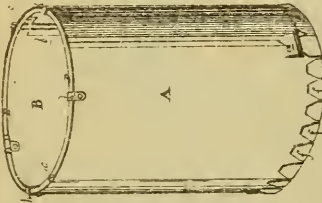
103,957, ARTHUR M. ALLEN.
VELOCIPEDS



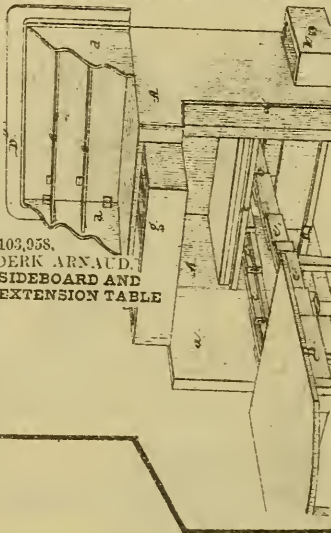
103,961, AMOS H. RANGLE.
PRINTING-PRESSES.



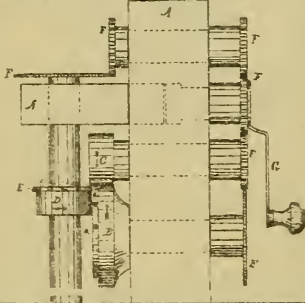
103,953, FRANK KNOLTON WINSOR.
LIME-BARRELS OR KIESELS



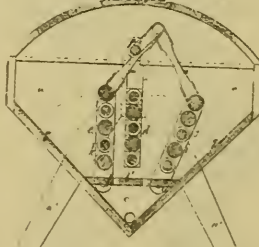
103,958,
DERK ARNAUD.
**SIDEBOARD AND
EXTENSION TABLE**



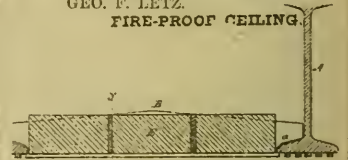
103,954, ALVIA L. WOODING.
MACHINE FOR MAKING OX-SHOES



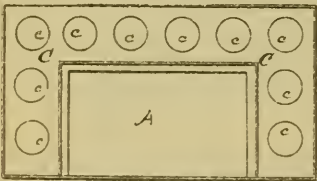
103,959, FRANK M. BACON.
WASHING-MACHINE



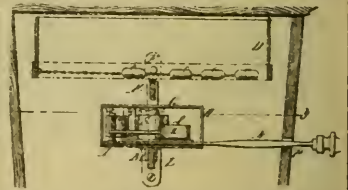
103,963, F. BAUMANN,
GEO. F. LETZ.
FIRE-PROOF CEILING.



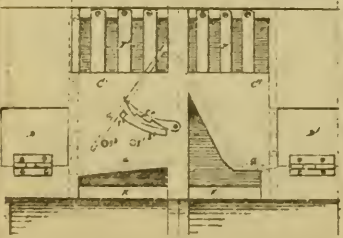
103,955, FREDERICK ZEITZ.
APPARATUS FOR COOLING ALE, BEER



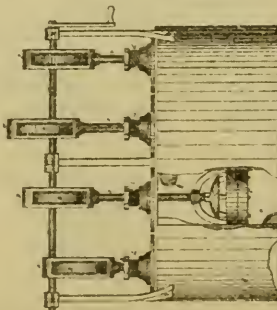
103,964, PETER BECKER, FLOUR-SIFTER.



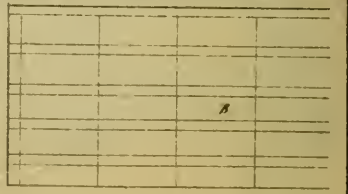
103,956, CHESTER E. ALBRIGHT.
MANGERS.



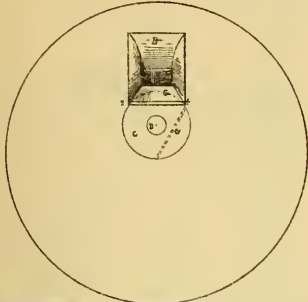
103,960, B. C. BAILEY. PUMPS.



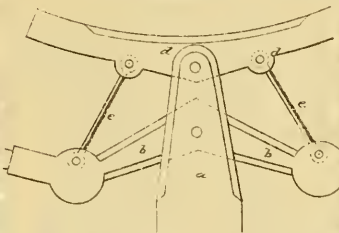
103,965, N. P. BEERS. COPY-BOOKS.



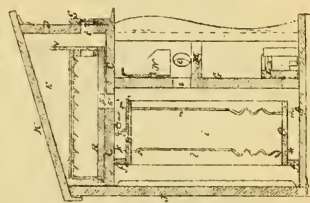
103,966, RICHD. W. BELSON. PATTERNS
FOR MOLDING STOVE-PLATES.



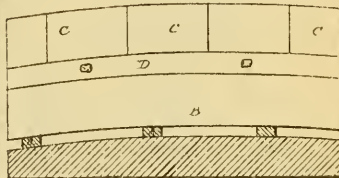
103,971, NATHL. BRADFORD.
MECHANICAL MOVEMENT.



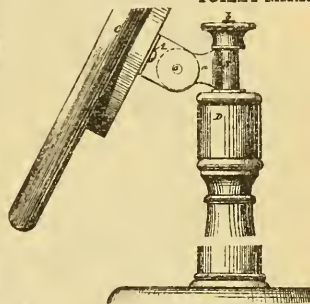
103,978, HENRY F. CARPENTER.
BEE-HIVES.



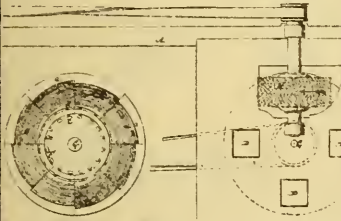
103,979, LOUIS A. CAUVET.
WOOD PAVEMENT.



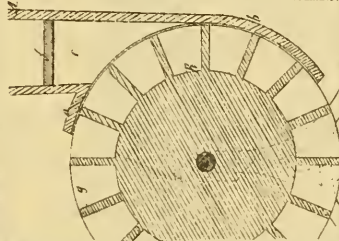
103,980, GEORGE H. CHINNOCK.
EDWARD P. WILLIAMS.
TOILET-MIRROR.



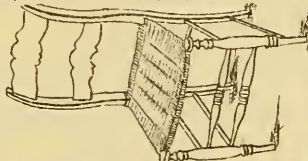
103,968, G. H. BLISS AND M. REES
MANUFACTURE OF WOOD PAPER
STOCK.



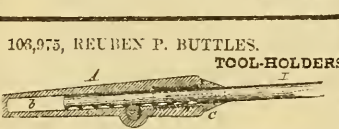
103,972, WILLIAM BRADWOOD.
HORATIO JONES HEWITT.
WATER-WHEELS.



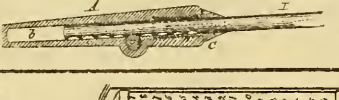
103,973, WM. G. BULGIN. CHAIR-SEAT



103,974, WM. H. BURRIDGE.
COMPOUND FOR PREVENTING AND
REMOVING INCRUSTATION IN STEAM-
BOILERS.



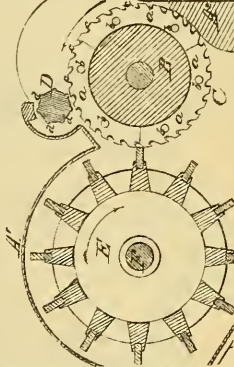
103,975, REUBEN P. BUTTLES.
TOOL-HOLDERS



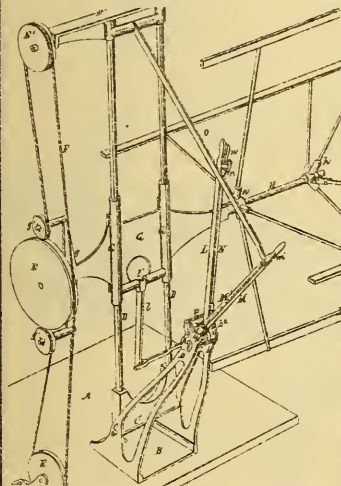
103,976, S. R. P. CAMP.
COMBINED LIQUID
GAUGE AND HYDROMETER.



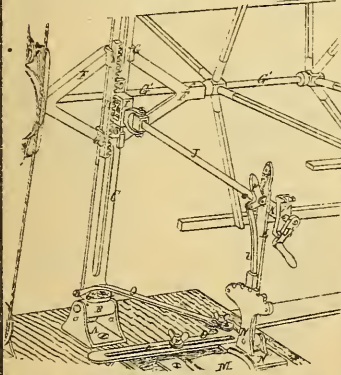
103,981, JEFFERSON M. CLOUGH.
COTTON-GINS



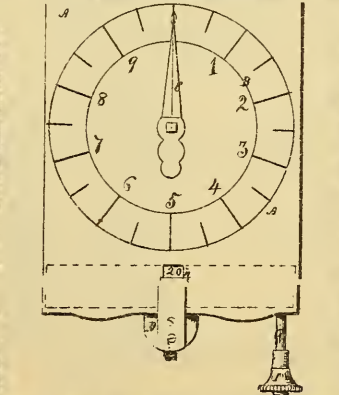
103,969, J. W. BOPE.
REELS FOR HARVESTERS.



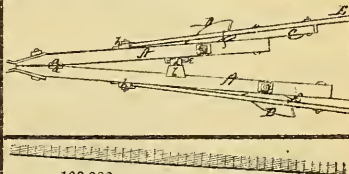
103,970, J. W. BOPE.
REELS FOR HARVESTERS



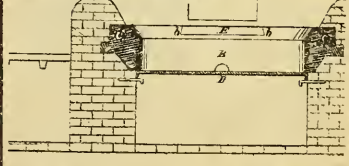
103,977, SAM'L R. P. CAMP.
COMPUTING SPRING-BALANCES.



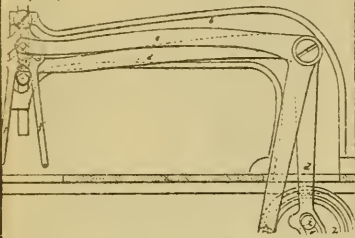
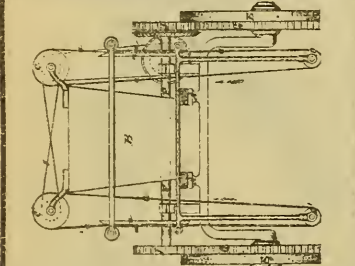
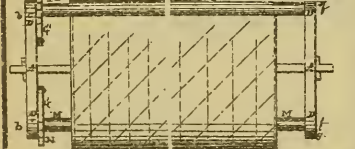
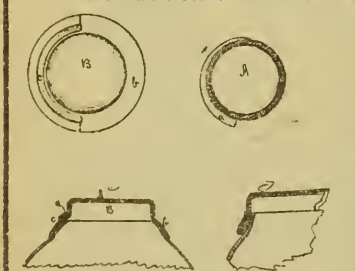
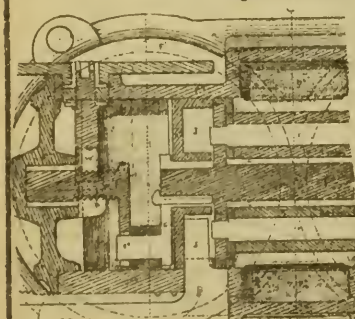
103,982, HENRY C. CLOYD. FLOWS.



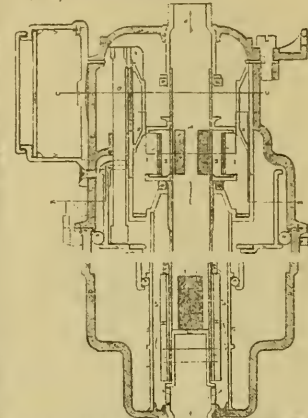
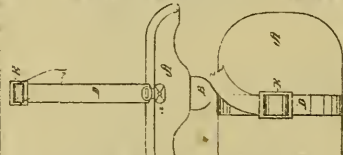
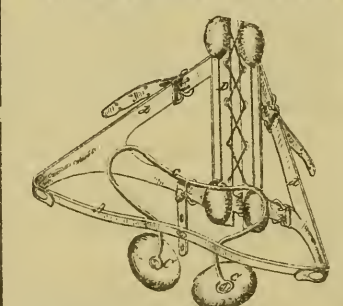
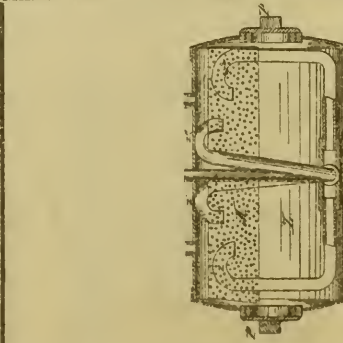
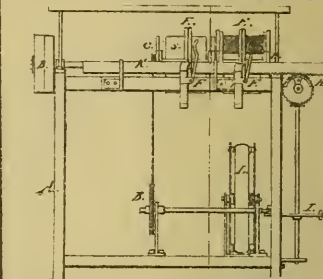
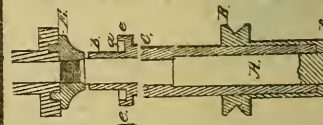
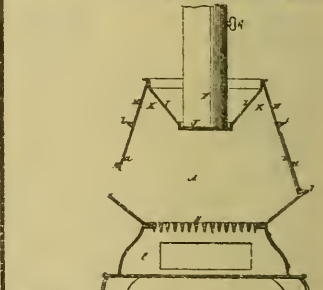
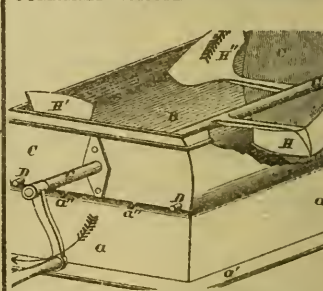
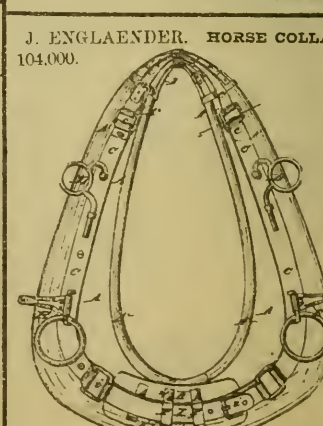
103,983, THOMAS COATES.
CHILL-BOSSES FOR
BOILING AND
PUDDLING-FURNACES.

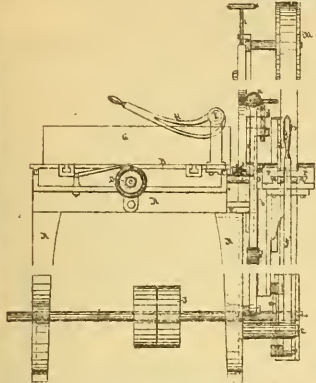
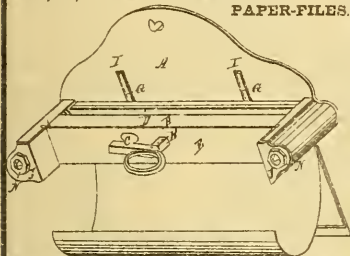
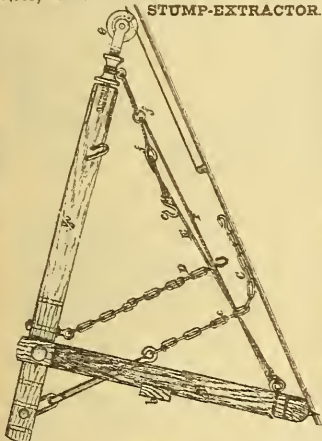
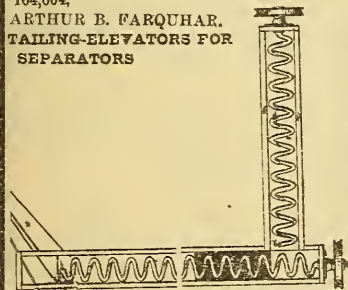
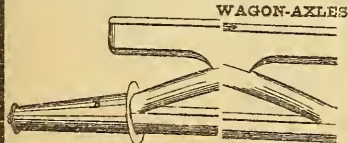
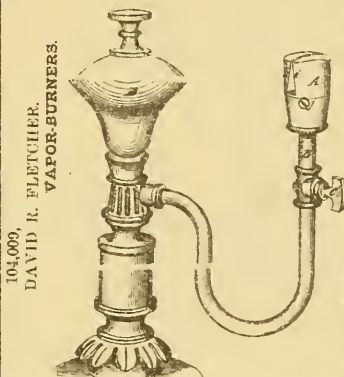
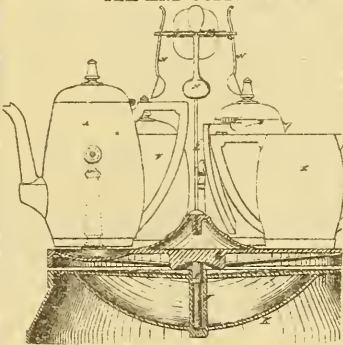
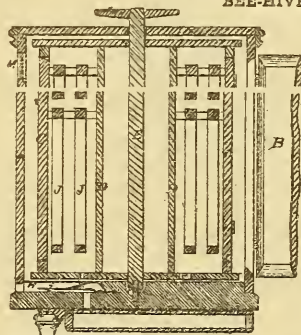
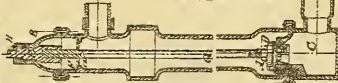
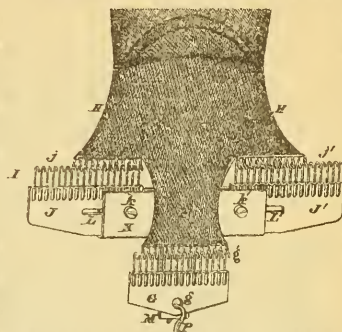


103,984, J. J. COBB SEWING-MACHINE.

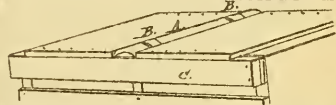
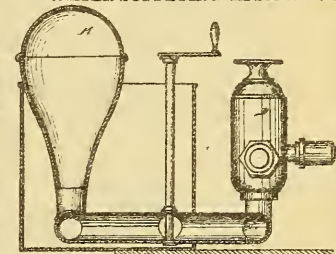
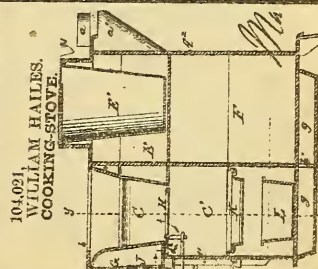
103,985, ALONZO COMSTOCK.
JAMES H. NICHOLSON.
CARRIAGE-CURTAIN BUTTON.103,986, ROBERT F. COOKE. ELECTRICAL
COTTON-PICKING MACHINES.103,987, JOHN A. COOKERLY.
QUILTING-FRAME.103,988, E. T. COVELL.
METALLIC CAPS AND NOZZLES.103,989, R. CREUZBAUR.
LIQUID METER.

103,990, ROBT. CREUZBAUR.

103,991, HENRY F. CRISTY.
PENMAN'S WRIST-SUPPORTERS103,992, RICHARD JACKSON CUNDIFF.
COMBINED ABDOMINAL AND
BACK-SUPPORTERS AND TRUSSES.103,993, Wm. B. CURTIS.
WICK-ADJUSTERS FOR
ARGAND-LAMP BURNERS.103,994,
JOHN DAILEY.
APPARATUS FOR THE
MANUFACTURE OF ILLUMINATING-GAS.103,995, GEORGE W. DAUGHERTY.
SPOOLING-MACHINES.103,996, G. W. DAUGHERTY.
SPINDLE FOR SPINNING-MACHINE.103,997, ROBERT DIVEN.
LAUNDRY-IRON HEATER.103,998, THOMAS DRAKE.
COMBINED ROASTER AND BROILER.103,999, HENRY V. EDMOND.
MANUFACTURE OF FROSTED
PLUSH, PAPER.

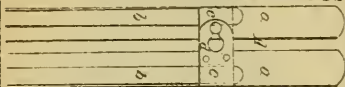
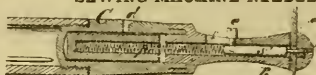
104,001, HARRY HUBBARD EVARTS
DOVETAILING-MACHINE.104,002, THOMAS O. FAHNESTOCK.
PAPER-FILES.104,003, ENOCH FARNSWORTH.
STUMP-EXTRACTOR.104,004,
ARTHUR B. FARQUHAR.
TAILING-ELEVATORS FOR
SEPARATORS104,005, CHAS. W. FILLMORE.
THOS. M. JONES.104,006. C. C. FITZGERALD.
COLORING AND DRYING PAPER.104,007, C. C. FITZGERALD.
TREATING MARBLE TO PRESERVE IT.104,008, CYRENIUS C. FITZGERALD.
PRODUCING MOSAICS UPON MARBLE.104,009,
DAVID R. FLETCHER.104,010, IRA YEAMANS.
TEA AND COFFEE-SERVICE.104,011, THOMAS H. FORSTER.
BEE-HIVES.104,012, JACOB FRICKER.
AMERICUS WARDEN.
HYDRANTS.104,013,
THOMAS GARRICK.
EYELET.104,014, WILLIAM GASKILL.
SETTING-UP AND TENSION COMES
FOR KNITTING-MACHINES.

104,015, JOHN H. GEE, THILL-COUPPLING.

104,016, LEWIS L. GILLILAND.
FRUIT-BOXES.104,017, HARRY C. GOODRICH.
EMBROIDERING ATTACHMENT
FOR SEWING-MACHINES.104,018, J. P. GRUGER.
ENVELOPE OPENER.104,019, JOHN C. HAGAN.
WATER-SUPPLYING APPARATUS.104,020, ROBERT HAILE.
SPINDLES FOR SAFE-LOCKS.104,021,
WILLIAM HAILES.
COOKING-STOVE.

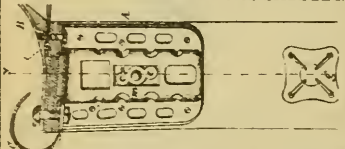
104,022. JOSEPH HANAUER.
NICHOLAS SARTOR.

CORSET-SPRINGS.

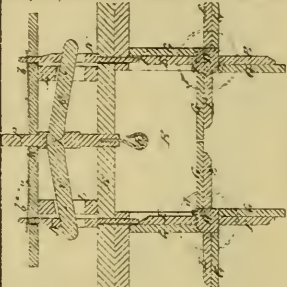
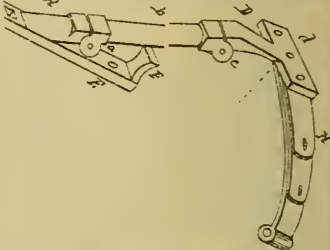
104,030. E. E. HENDRICK.
SETTER, GAUGE, AND CASE FOR
SEWING-MACHINE NEEDLES.104,038. GEORGE L. KITSON.
JOSHUA F. LANING.
JOSEPH BENNOR. SEAL-LOCKS.

104,023. E. E. HARDY.

HARNESS-SADDLES.

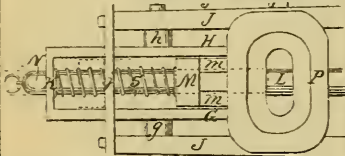
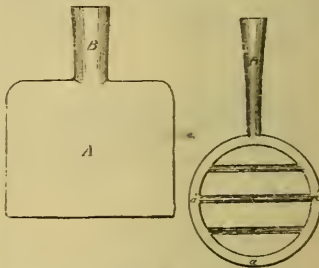


104,031. NOAH F. HERSH. ANIMAL-TRAP

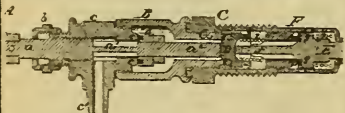
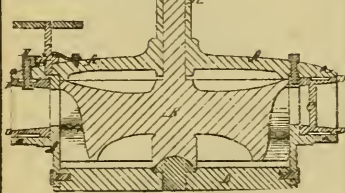
104,039. URIAS B. KLINE.
JOINTED SPRING-GUARD.

104,024. DANIEL HART.

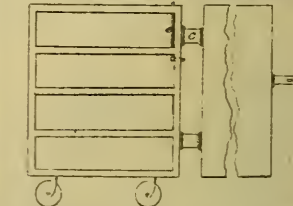
RAILWAY CAR-COUPLING.

104,032. H. H. HESKETT.
SPRING CLOSING-CAPS FOR
OIL-CUPS AND INKSTANDS.104,040. WILSON W. KNOWLES.
METHOD OF FORMING
CARRIAGE-STEPS.

104,025. IRUS W. HARVEY. FAUCETS.

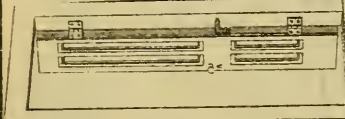
104,033. DANL. HOFFMAN. NUT-LOCK
WM. JOHNSTON.104,026.
WM. HASLUP.
WATER-WHEELS.104,034. E. N. HORSFORD.
MANUFACTURE OF
A NON-HYGROSCOPIC
PULVERULENT ACID PHOSPHATE.

104,035. WM. KAYS. HORSE-COLLARS.

104,041. GEO. KOCH.
WM. KOCH.
MOVABLE STORE-SHELVING.

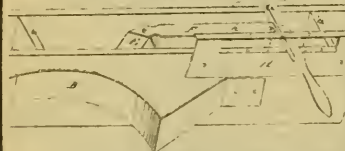
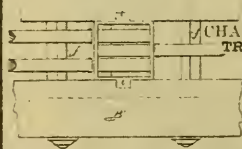
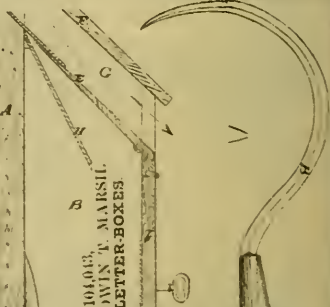
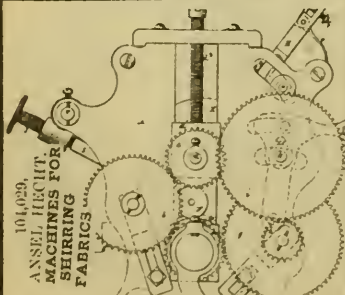
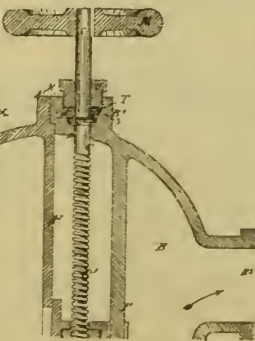
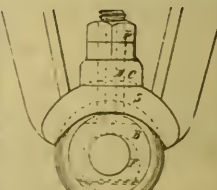
104,027. JOEL B. HAYDEN.

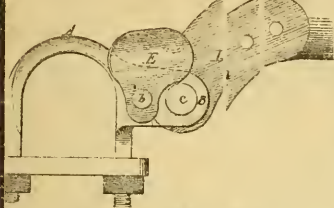
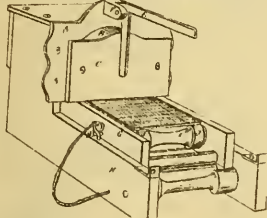
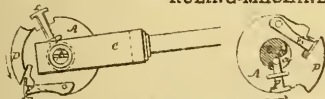
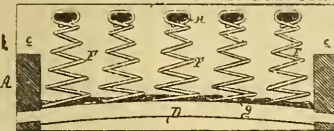
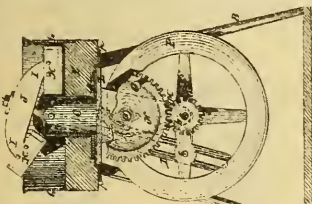
RUBBER DOOR-SPRINGS.



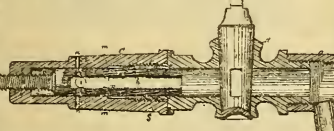
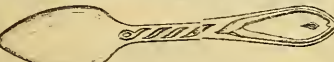
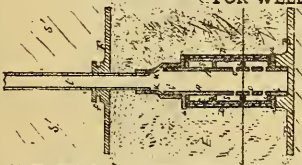
104,028. JOHN HEBERLING.

HAND SEED-PLANTERS.

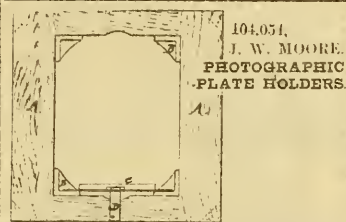
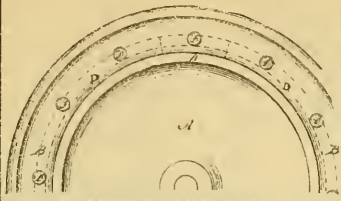
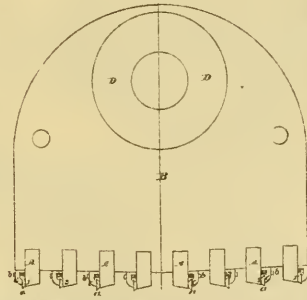
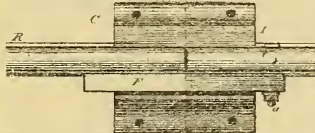
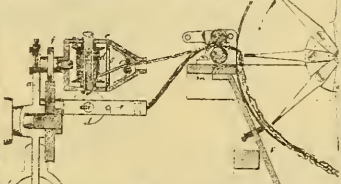
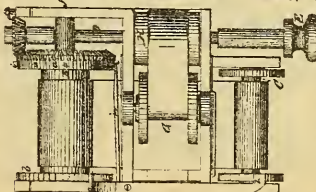
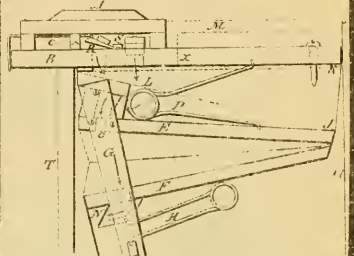
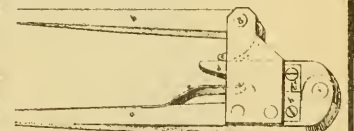
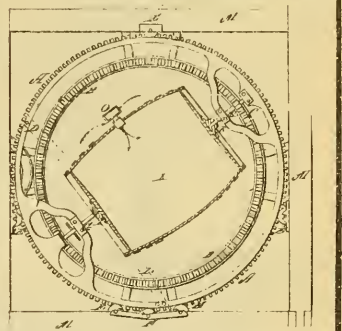
104,036.
CHAS. KELLOGG.
TRUSS-FRAME
BRIDGES.104,042. J. FRED. LEITCH.
CULTIVATING-HOOK104,029.
ANSEL LECUIT.
MACHINES FOR
SHIRING
FABRICS104,037.
NORMAN KING.
GLOBE-VALVES.104,014.
VOLNEY W. MASON.
ADJUSTABLE HANGER
FOR SHAFTING.

104,045, HENRY Z. MAST.
THILL-COUPLING.104,046, FREDERICK M. MATTICE.
SOCKET-PIPE MACHINERY.104,047, JOHN McADAMS.
RULING-MACHINES.104,048, WILLIAM McARTHUR.
SPRING BED-BOTTOM.104,049, ARTHUR McCARTER.
MEAT-CROPPER.

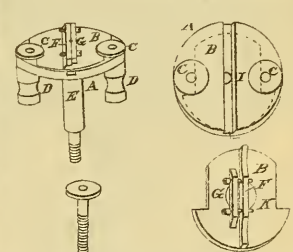
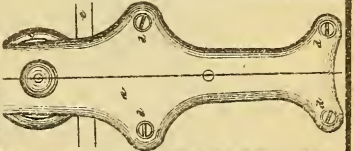
104,050, WILLIAM McKAY. FAUCETS.

104,051, HENRY C. MILLIGAN. HANDLES
OF SHEET-METAL SPOONS, FORKS, &c.104,052, MADS C. MONSON. TUBING AND
FILTERING-ARRANGEMENTS
FOR WELLS.

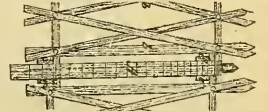
104,053, H. W. MOORE. CAR-WHEELS.

104,054,
J. W. MOORE.
PHOTOGRAPHIC
-PLATE HOLDERS.104,055, ARCHD. MUNRO,
W. R. ADAMSON. MACHINE FOR
CUTTING AND DRESSING STONE.104,056, JOHN W. MUNSON.
MANUFACTURE OF RUBBER-
COATED CARRIAGE-TRIMMINGS.104,057, JNO. M. ORE.
RAILWAY RAIL-CHAIR AND JOINT.104,058, JOSEPH PARADIS.
WM. H. DREW.
MACHINES FOR UNTWISTING
AND SEPARATING HAIR-ROPE.104,059, O. S. PEASE.
FARE-RECORDER FOR CARS, &c.104,060, J. R. PERRY.
ORGAN-BELLOWS.104,061, HENRY PETERS.
TOOL FOR CUTTING OFF BOLTS, RODS.104,062, H. A. RATTERMANN
MACHINE FOR PITCHING LAGER-
BEER AND OTHER CASKS.

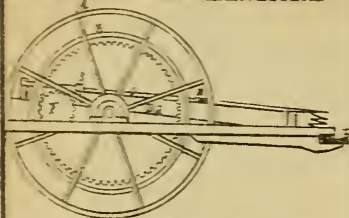
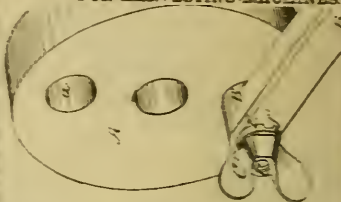
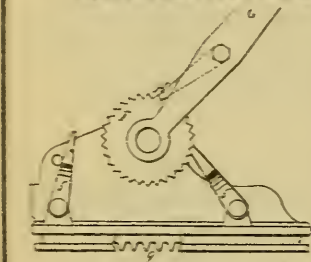
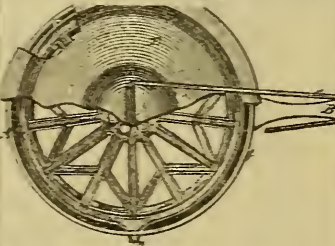
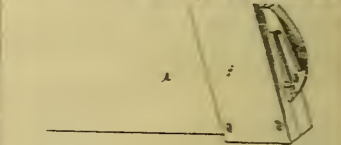
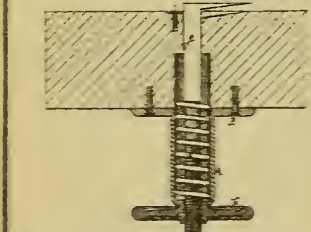
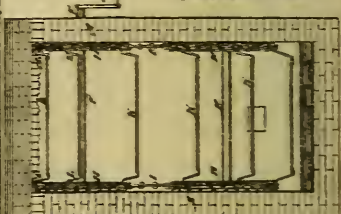
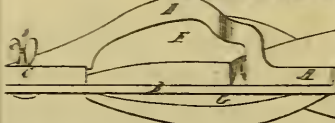
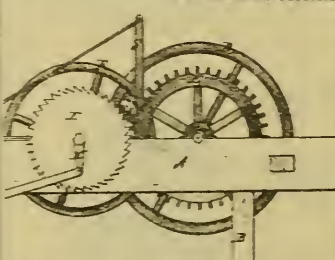
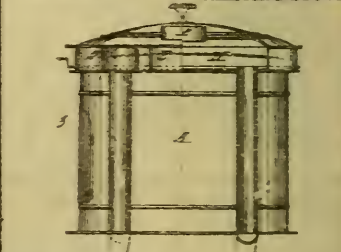
104,063, JOHN RICH. LATHE-CHUCK.

104,064, SAMUEL P. ROBINSON.
DOOR-HANGER.

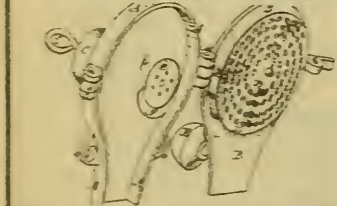
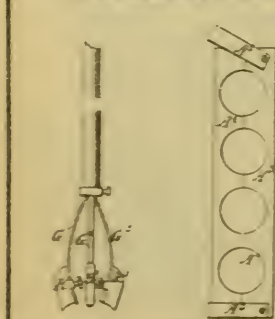
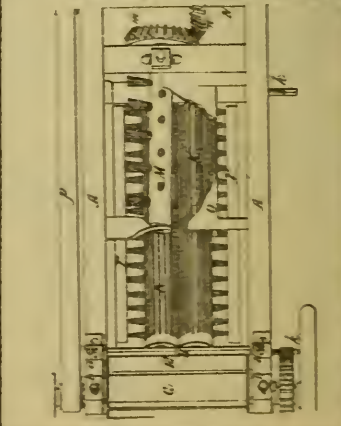
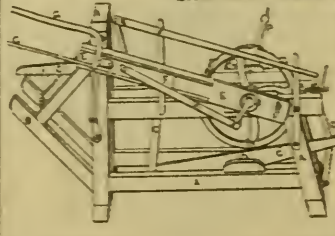
104,065, BENNING ROWELL. FENCES.

104,066,
WM. H. RUSSELL.
SCREW-COLLARS
FOR LAMPS.

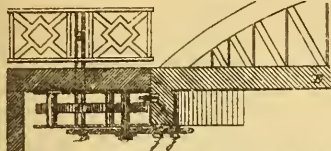
104,067. JACOB SEIBEL. HARVESTERS.

104,073. WILLIAM SPEAR.
ALARMS FOR SAFES.104,080. J. OSCAR TABER. CRANK-WRIST
FOR HARVESTING-MACHINES.104,068. GEO. SELDEN.
H. O. KELSEY.
HEAD-BLOCKS FOR SAW-MILLS.104,074. GEORGE STECK.
SAW FOR SAWING FELLIES.104,081. JOSEPH M. TAYLOR.
SCAFFOLD-BRACKET.104,075. WILLIAM C. STIVER. BROILER.
JOHN S. WILLIAMS.104,082. JOHN C. TURNER.
BEDSTEAD-FASTENING.104,069. HENRY J. SKINNER.
BENCH-HOOKS.104,083. JOSEPH VALE.
CHAS. L. VALE.
BAKERS OVEN.104,070. JAMES B. SLUSSEY.
WILLIAM H. MEECH. GRATE AND
BACK FOR COOKING-STOVES.104,076. ORSON W. STOW.
GAUGE ATTACHMENT FOR
TINSMITHS' SHEARS.104,077. JACOB STRAUSBAUGH, JUNIOR.
SAWING-MACHINE.104,084. NICHOLAS S. VEDDER.
HEATING-STOVE.

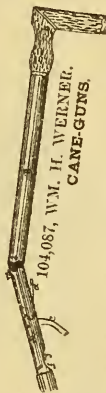

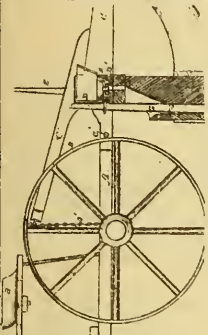
104,074. JAMES M. SMITH. GRATER.

104,072. WILLIAM SMITH. MACHINE
FOR CLEANING CAST-IRON PIPE.104,078.
JAMES B. STREETT.
BLOW-PIPES.104,085. RALPH WARRINER.
JAMES H. BAKER.
GEORGE B. SLOCUM.
MACHINE FOR HUSKING CORN.104,079. MONROE SWENT.
SAWING-MACHINE.

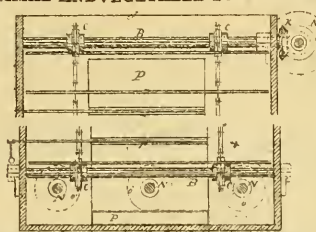
104,086, HUBERT WERMERSKIRCHEN.
BRIDGE-GATES.



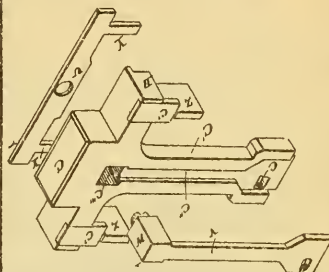
104,088.
JOHN E. WHITE.
SEED-PLANTERS.



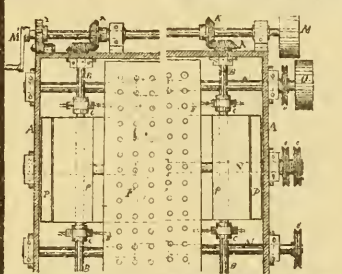
4.010. C. ALDEN. APPARATUS FOR
EVAPORATING THE MOISTURE FROM
ANIMAL AND VEGETABLE SUBSTANCES



4,018. JOSEPH L. HALL, LOCKS.



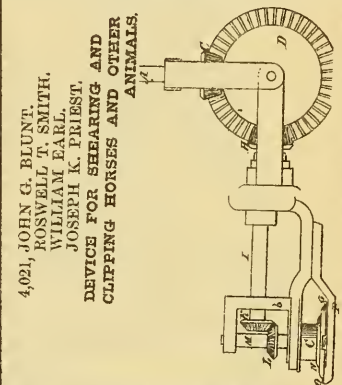
4,011. C. ALDEN. PROCESS FOR
EVAPORATING THE MOISTURE FROM
ANIMAL AND VEGETABLE SUBSTANCES



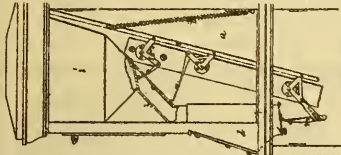
4,019. CALVIN Z. KROH. CURTAIN-KNOBS



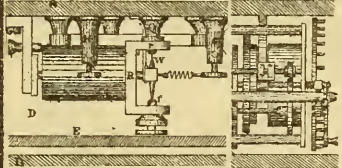
4,020, THOS. RESTIEUX.
DEODORIZING PETROLEUM.



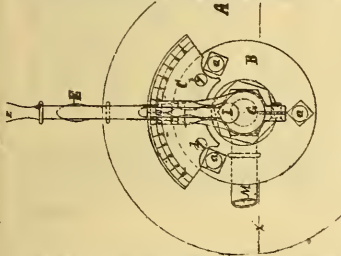
104,089, JOHN G. WHITE.
EARTH-URINALS



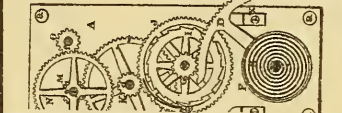
4,012, ALEXANDER ALLEN.
FIRE-ALARM SIGNALS
AND APPARATUS.



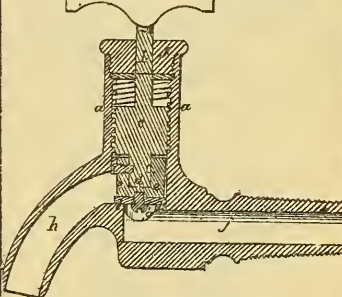
104,090, DANIEL ^{his} X WILLIAMS.
EDWARD ^{mark} JOSEPH.
REVOLVING STEAM-GAUGE COCK



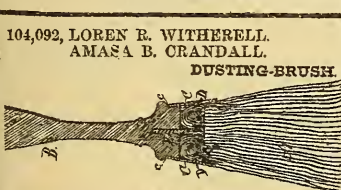
4,013. ALEXANDER ALLEN.
FIRE-ALARM SIGNALS
AND APPARATUS



4,022, EDWARD A. STERRY. FAUCETS.

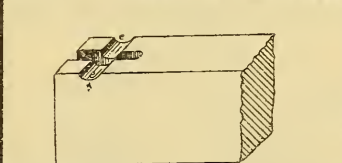


104,091, JOHN DE WITT WILLIAMS.
MANUFACTURE OF IRON.

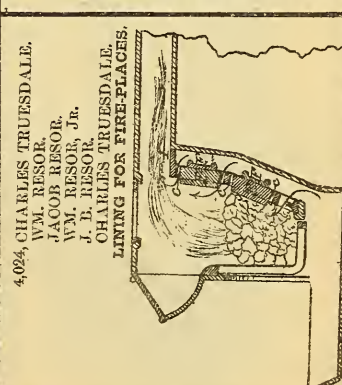


104,092, LOREN R. WITHERELL.
AMASA B. CRANDALL.
DUSTING-BRUSH.

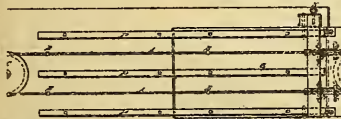
4.015.DOUGLAS BLY.
PISTON-ROD ADJUSTERS



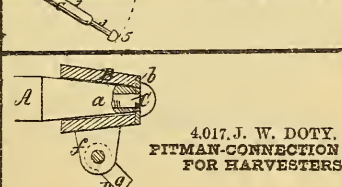
4,023, ALBERT KNIGHT.
GEO. W. TALBOT.
DYE FOR COLORING WOOL AND
OTHER FIBROUS MATERIALS.



104,093, JOHN EASTBURN WOOTTEN.
MACHINERY FOR MOVING COAL
OR OTHER MINERALS.

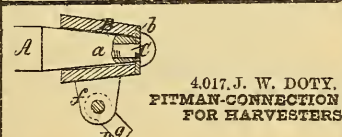


4,016, BARNES CLAYTON.
AND STUDS
SLEEVE-BUTTONS



104,094 J. H. WOOLRICH.
CONDITION-POWDERS
FOR HORSES AND CATTLE

4,017. J. W. DOTY,
PITMAN-CONNECTION
FOR HARVESTERS

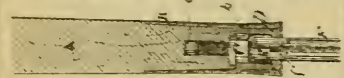
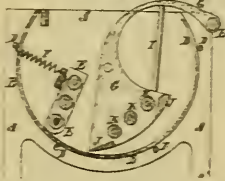
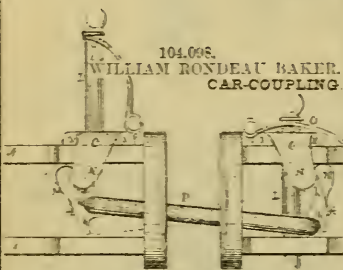
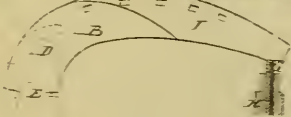
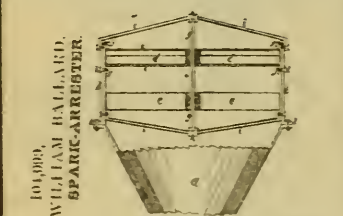
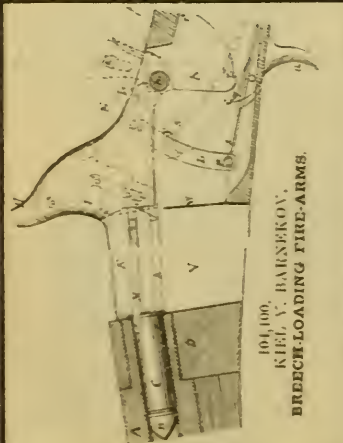
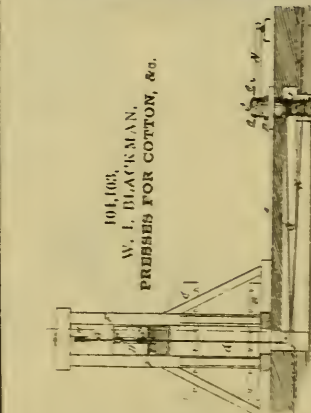
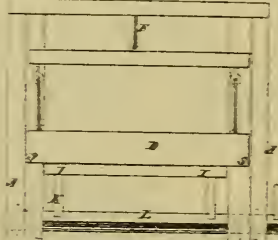
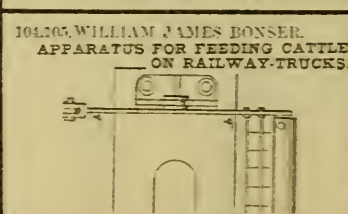
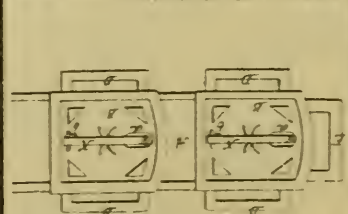
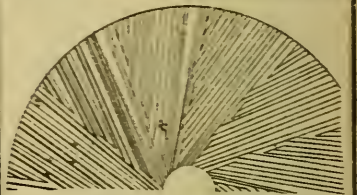
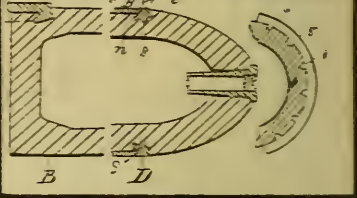
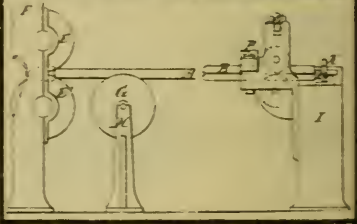
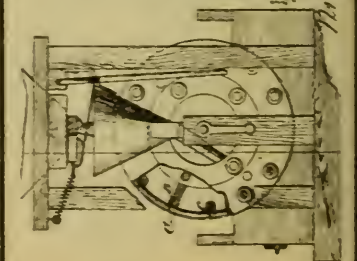


ILLUSTRATIONS OF PATENTS

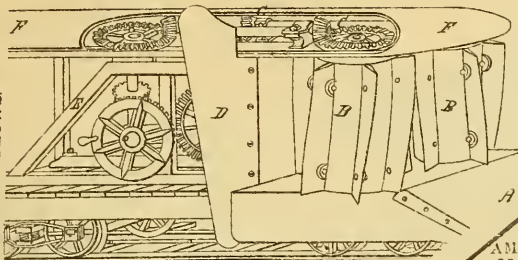
ISSUED FROM

THE UNITED STATES PATENT OFFICE

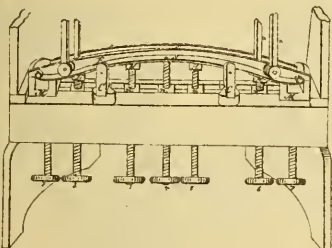
JUNE 14, 1870.

104.095. EMANUEL ANDREWS.
HANDLE FOR CROSS-CUT SAWS.104.096. ISRAEL BAKER.
WASHING-MACHINE.104.097. SANFORD J. BAKER.
HORSESHOES.104.098. WILLIAM RONDEAU BAKER.
CAR-COUPLING.104.099. WILLIAM BALLARD.
SPARE-ARRESTER.104.100. KIEL V. BAKSEKOV.
BREECH-LOADING FIRE-ARMS.104.101. O. B. BEARSE.
HAWSE-PIPE STOPPER.104.102. PLIMPTON ROSS BERRY.
ELEVATING APPARATUS.104.103. W. L. BLACKMAN.
PRESSES FOR COTTON, &c.104.104. JOEL BOLINDER.
SOFT SOAP OR WASHING-FLUID.104.105. WILLIAM JAMES BONSER.
APPARATUS FOR FEEDING CATTLE
ON RAILWAY-TRUCKS.104.106. NATHAN BOTSFORD.
HAME-TUG FOR HARNESS.104.107. D. BOWMAN.
MILLSTONE DRESS.104.108. JOHN C. BUTLER.
PROJECTILES FOR ORDNANCE.104.109. A. S. CARLETON.
FOUNTAIN-PENS.104.110. MILO S. CARTER.
HOSEA D. CARTER.
TRUSS-BRIDGES.104.111. J. CASSIDY.
APPARATUS FOR MAKING TUBING.104.112. WILLIAM C. CHAPMAN.
RICE-SCREENS.

104,113,
T. C. CHURCHMAN.
SNOW-FLOWS.



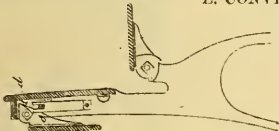
104,114, JAMES B. CLEVELAND.
HENRY C. GUILDERSLIEVE.
MACHINE FOR FORMING ELLIPTIC
SPRINGS.



104,115, E. CONVERS. OIL-CUPS AND
BEARINGS FOR SPINDLES.



104,116, FOLDING SCHOOL-DESK
E. CONVERS.



104,117, DANIEL P. COOK.
SELF-PROTECTORS



104,118, E. P. COOLEY.
BROOMS AND WHISKS.



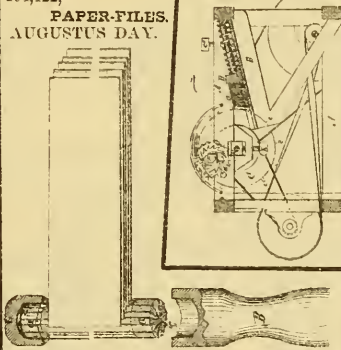
104,119, GEO. B. COWLES. PULLEYS.



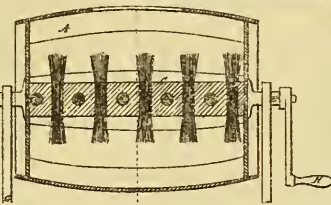
104,120, THOMAS CURTIS.
BUTTER-EXTRACTOR.



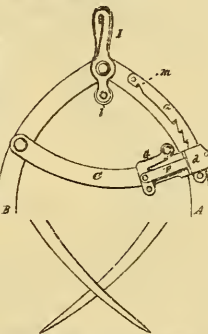
104,122,
PAPER-FILES.
AUGUSTUS DAY.



104,123, RICHD. DERHAM.
VEGETABLE WASHER.



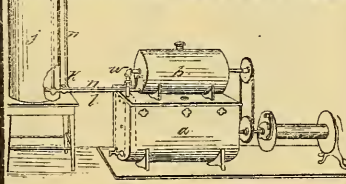
104,124,
WILLIAM E. DERRICK.
HORSE HAY-FORKS



104,125, THOMAS DIVINE.
HAIR-BRUSH OR COME.

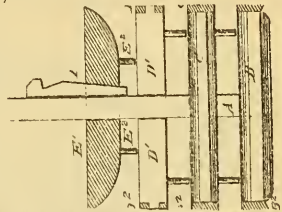


104,126, BAILEY B. DOUGLAS.
HYDROCARBON-VAPOR MACHINE FOR
ILLUMINATING PURPOSES.

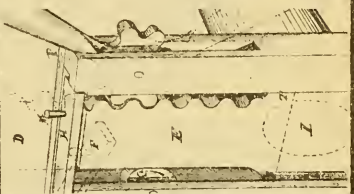


104,127, PHILIP EDGERTON.

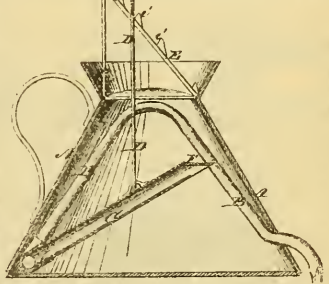
CHURN-DASHER.



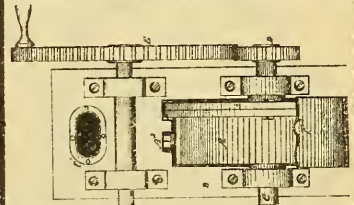
104,128, ASA EGGLESTON. FAUCETS.



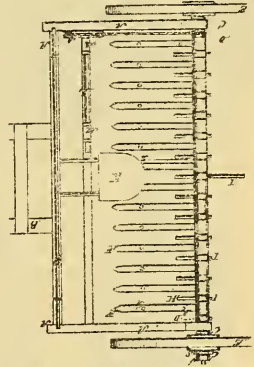
104,129, THEO. W. ELLIS.
LIQUID-MEASURES.



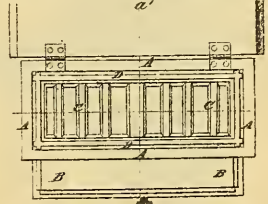
104,130, CHRISTIAN S. EYSTER.
SEPARATING AND REFINING METALS.



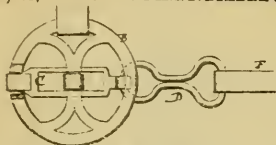
104,131, WILLIAM H. FAY.
HORSE HAY-RAKES.



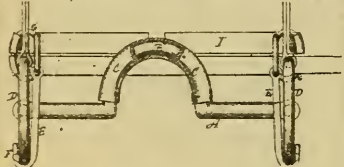
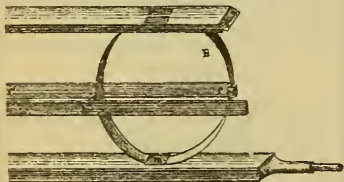
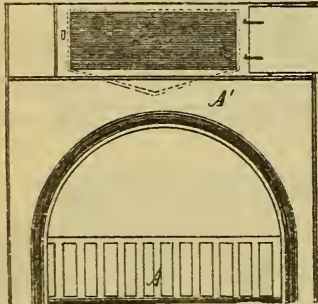
104,132, FRANK FIGHT. WOOD-BOX.



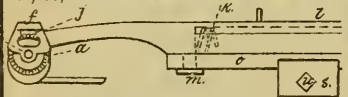
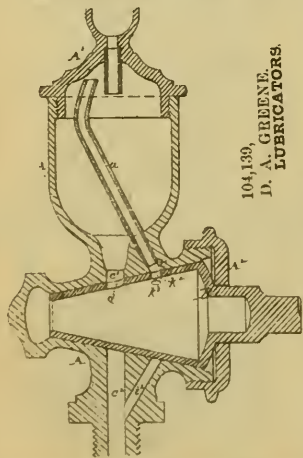
104,133, MILTON J. FIREY. BRIDLE-BIT.



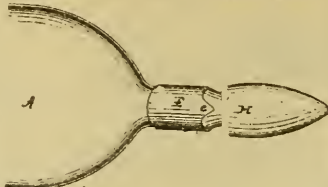
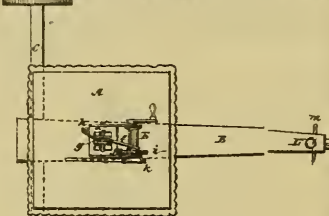
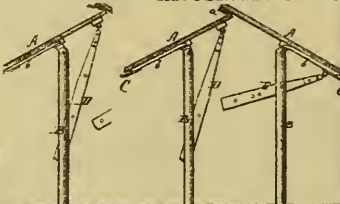
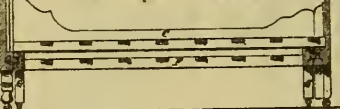
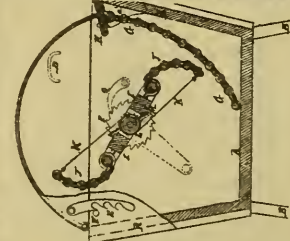
104,134, MILTON J. FIREY. BRIDLE-BIT.

104,135, JOSEPH S. FOSTER.
CARRIAGE-SPRING.104,136, J. W. GILLESPIE.
WM. HUGHES.
COMBINED GRATE-FRONT AND OVEN

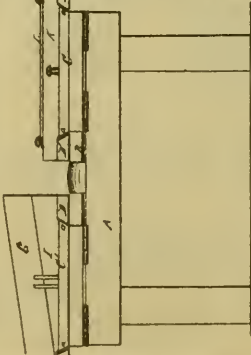
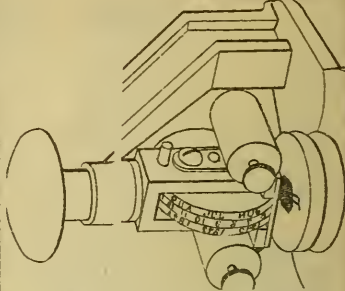
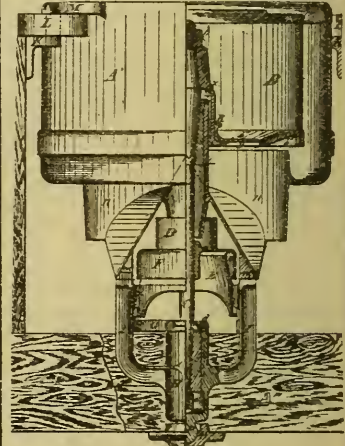
104,137, A. H. GILMAN. LOOM-TEMPLE.

104,138, SAMUEL H. GILMAN.
EXTRACTIVE MATTER FOR COLOR.
TREATING GRAIN TO OBTAIN
ING AND FLAVORING SPIRITS.104,139,
D. A. GREENE.
LUBRICATORS.

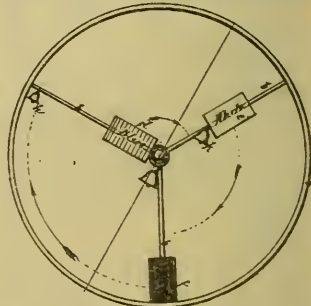
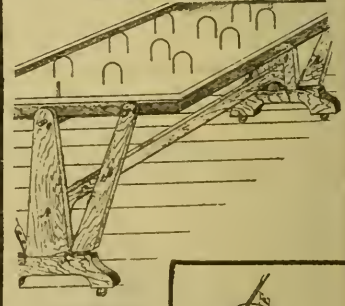
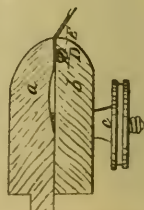
104,140, GEO. W. GREGORY. SHOVELS.

104,141, HERMAN L. HALL.
PORTABLE SELF-ELEVATOR.104,142, FRANCIS L. HALL.
ADJUSTABLE SHEDS104,143,
THOMAS Q. HALL. BEDSTEAD.104,144, GUSTAVUS HAMEL.
WASHING-MACHINE.104,145, JOSEPH L. HANNUM.
SAMUEL H. STEBBINS.
FIRE-KINDLING.

104,146, O. P. HARE. LINIMENT.

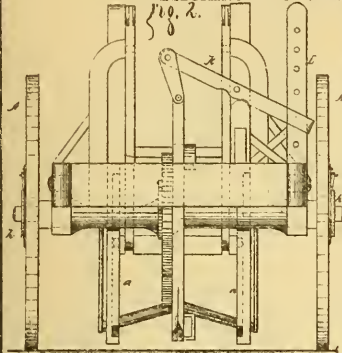
104,147, ELANDER HEATH.
DOVETAILING-MACHINE.104,148, E. E. HENDRICK.
STAMP-CANCELLERS.104,149, S. S. HEPWORTH.
CENTRIFUGAL MACHINES

104,150, PHILIPP BESSEMER. TOY HOOP.

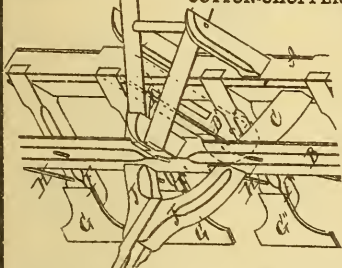
104,151, H. R. HEXL. METHOD OF
MOUNTING CROQUET-BOARDS.104,152,
W. O. HICKOK.
PAPER-RULING
MACHINES.

104,153, MAHLON C. HIGGINS.
GILBERT B. HIGGINS.

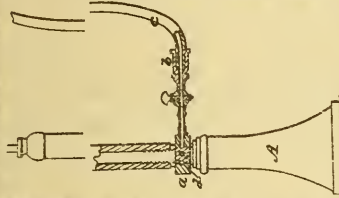
DITCHING-MACHINES



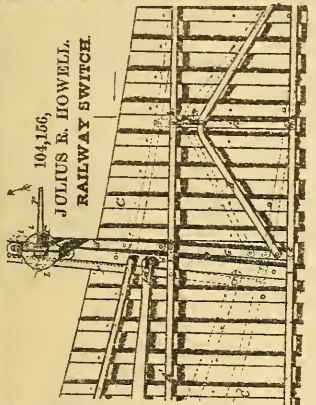
104,154, RUFUS C. HOLT.
COTTON-CHOPPER.



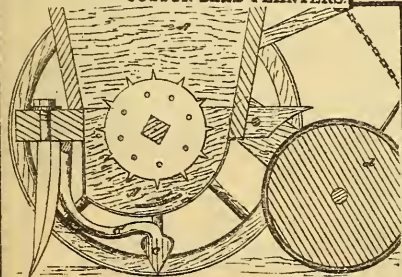
104,155, JOHN HORTON.
STANDARD FOR DROP-LIGHTS.



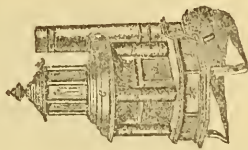
104,156,
JULIUS E. HOWELL.
RAILWAY SWITCH.



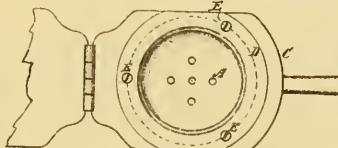
104,157, E. J. HUDSON
COTTON-SEED PLANTERS.



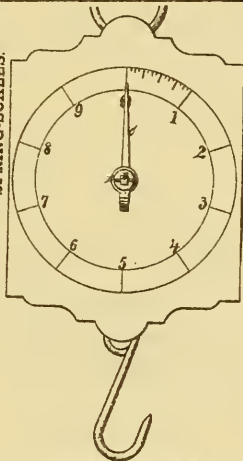
104,158, GEORGE G. RUNT.
STOVE-ILLUMINATOR.



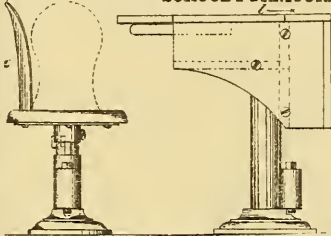
104,159, JAMES L. JENSEN.
LEMON-SQUEEZER.



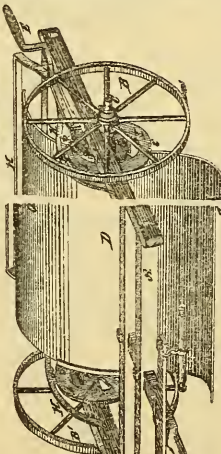
104,160,
JOHN JOCHUM.
SPRING-SCALES.



104,161, JOSEPH MCGINNIS JOHNSON.
SCHOOL-FURNITURE.



104,162,
DANIEL B. JONES.
ROAD-SCRAPERS.



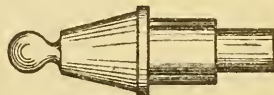
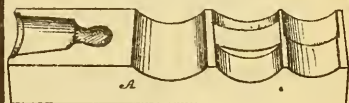
104,163, H. L. JUDD.
NAILS FOR PICTURES, &c.



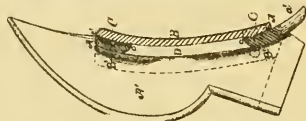
104,164, H. L. JUDD. TASSEL-HOOKS.



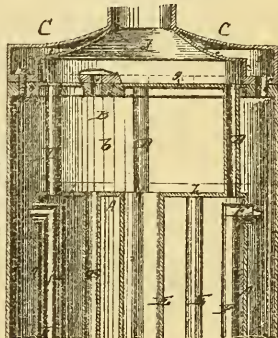
104,165, CHRISTIAN KONOLD.
DIES FOR FORGING VISE-BOXES.



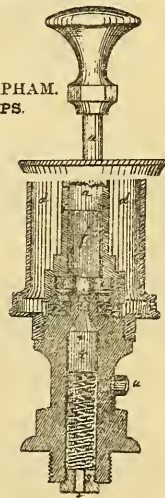
104,166, MATTHEW LAFLIN. PLOWS.
ENOS SLOSSON.



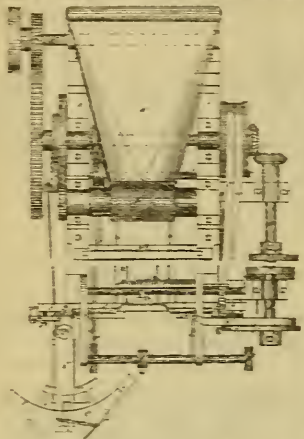
104,167, T. S. LA FRANCE.
STEAM-GENERATORS.



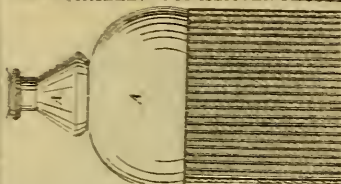
104,168,
LEVI S. LAPHAM.
OIL-PUMPS.



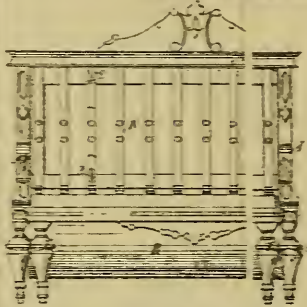
104166. H. LAW. PAPER BAG MACHINE



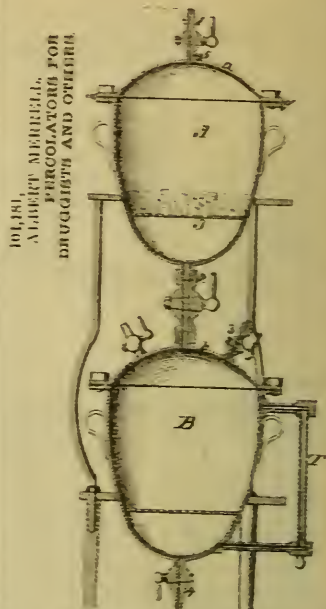
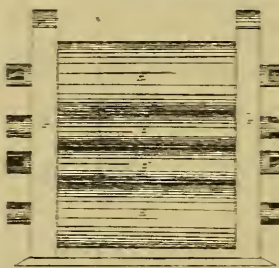
104175. CHARLES J. McALISTER. TASSEL



104176. CHARLES J. McALISTER. SOFA AND BEDSTEAD

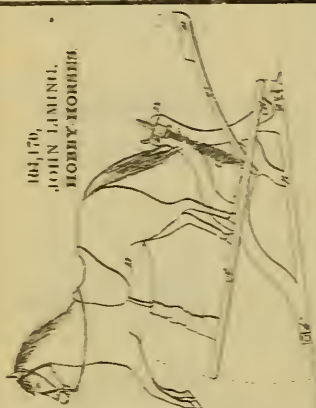


104177. GEO. F. McCLEANE. "FOUR-HIGH ROLLS" FOR ROLLING METAL

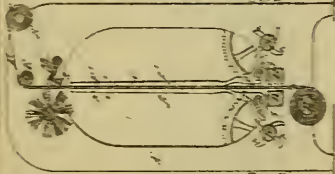


104181. ALBERT MERRILL. PERCOLATORS FOR DRUGGISTS AND OTHERS

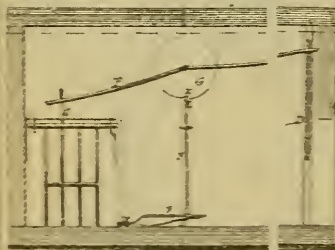
104170. JOHN LAMING. HOBBY HORSE



104171. H. HENRY LINDHOLST. CARPET-CLEANING MACHINE



104172. WM. D. LINDSLEY. ANIMAL-TRAP



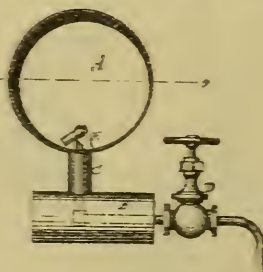
104173. CHARLES LOCKWOOD. SCREENS



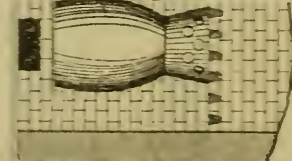
104174. THOMAS MARSH. JAMES BERNET. EGG-SEATER



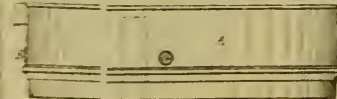
104178. JOHN C. McLAUGHLIN. STEAM-BOILER BLOW-OFF PIPE



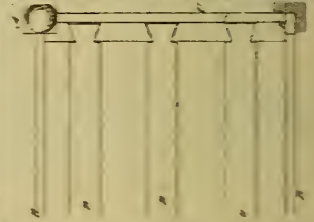
104179. JAMES C. McMANUS. CRUCIBLE-STANDS FOR FUSING METALS



104180. JAMES W. McMILLAN. MILK-COOLERS



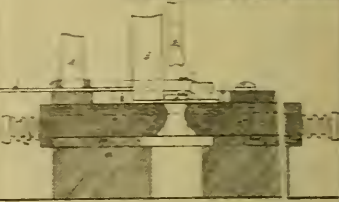
104182. JAMES C. MERRITT. BEDSTEAD



104183. PURCHES MILES. DOUBLE-POINTED TACKS



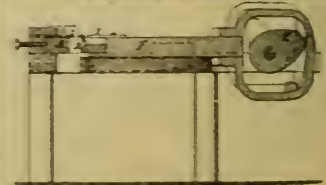
104184. PURCHES MILES. MACHINE FOR MAKING DOUBLE-POINTED TACKS



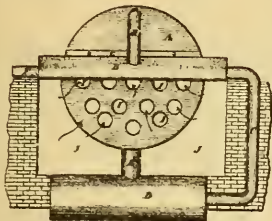
104185. WARREN MILLER. HORSE AND CATTLE-POKE



104186. JAMES MORGAN. MACHINE FOR MAKING HARROW-TEETH



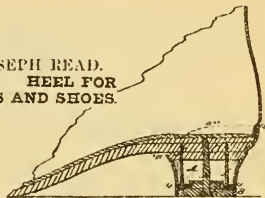
104,187, J. F. MORSE.
FEED-WATER HEATING APPARATUS.



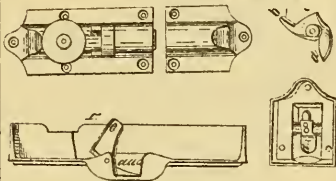
104,194, WALTER R. PETRIE.
MANUFACTURING
CARRIAGE-SPRING HEADS



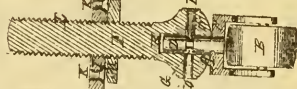
104,200,
JOSEPH READ.
HEEL FOR
BOOTS AND SHOES.



104,195, CHARLES E. PIERCE.
ALARM ATTACHMENTS
FOR LOCKS AND BOLTS.

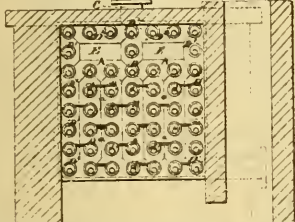


104,201, WILLIAM REAGAN.
CASTERS FOR BILLIARD-
TABLES AND FURNITURE.

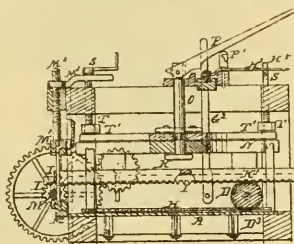


104,188, JOSEPH NASON.
D. SAUNDERS.

STEAM-GENERATORS



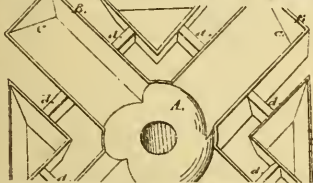
104,196, M. K. PIERCE.
SHEET-METAL-PIPE FORMING
AND THREADING-MACHINE.



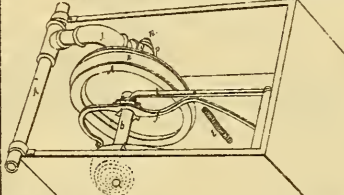
104,202, JAMES CLARENCE REED.
COMBS.



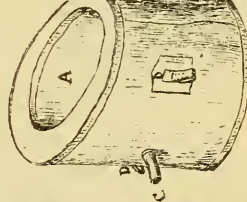
104,189, LEWIS T. NEWELL.
CHURN-DASHERS.



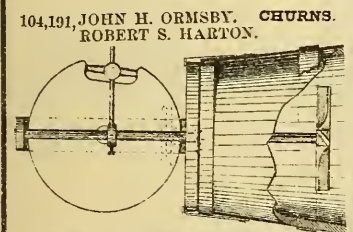
104,197, JOSEPH F. POND.
DEVICE FOR RAISING
AND LOWERING GAS-FIXTURES



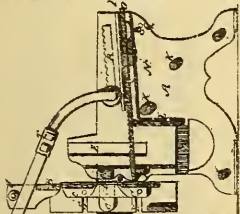
104,204, ISRAEL L. G. RICE.
APPARATUS FOR
CURE OF SPERMATORRHOEA.



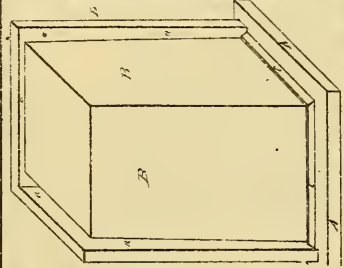
104,190, GEORGE G. NOAH.
MANUFACTURE OF PASTE.



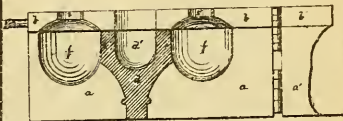
104,192, A. W. PAGETT.
VEGETABLE-CUTTER AND SCRAPER.



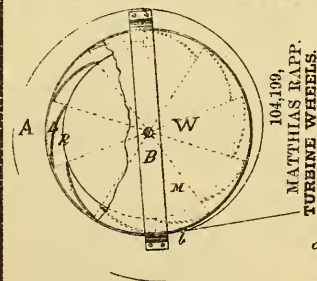
104,198, WM. PRATT.
VESSELS FOR PACKING
BUTTER AND OTHER ARTICLES.



104,203, DANIEL C. RIPLEY.
MOLD FOR GLASS LAMPS.

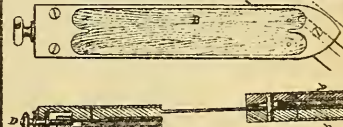


104,193, GEO. H. PERKINS.
METALLIC CAPS FOR TIN CANS.



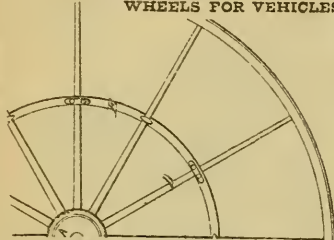
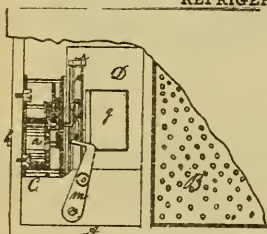
104,199,
MATTHIAS RAPP.
TURBINE WHEELS.

104,206, I. J. ROBINSON.
TRY-SQUARE AND BEVEL.

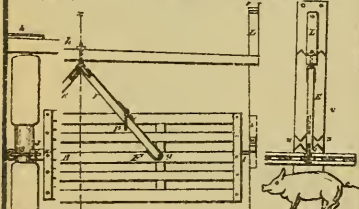
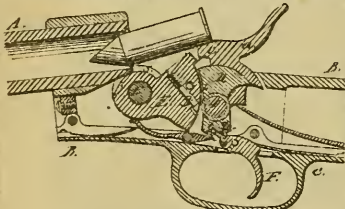
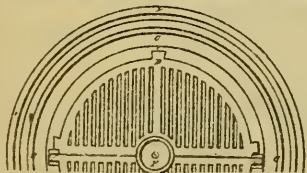


104,207, CHARLES M. ROHR.
CONSTRUCTION OF
CANE-SEAT CHAIRS.

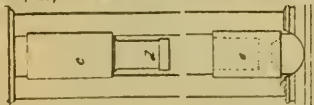
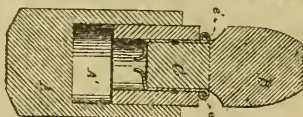
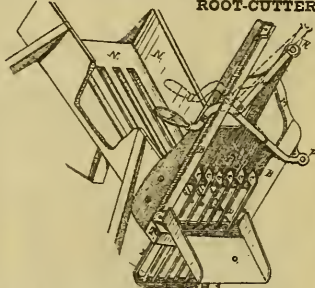
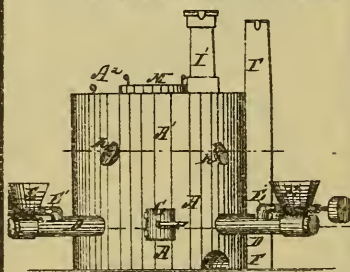
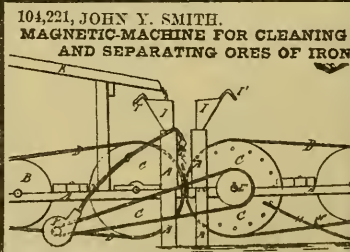
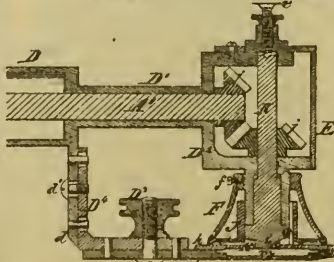
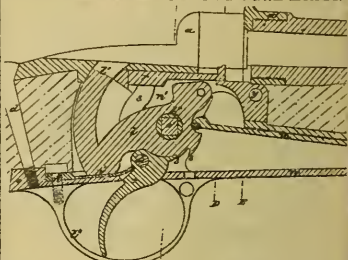
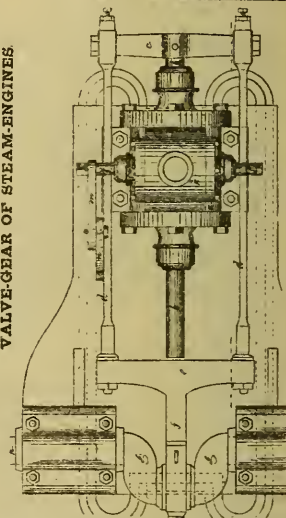


104,208, JOHN D. ROSS.
WHEELS FOR VEHICLES.104,209, BENEDITT SAUTER.
REFRIGERATOR.

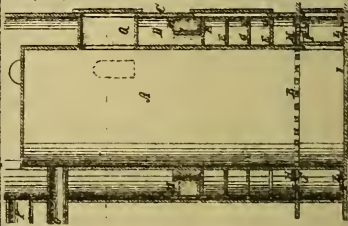
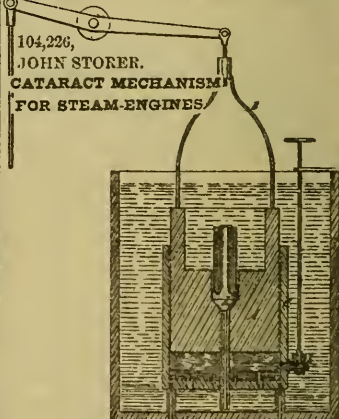
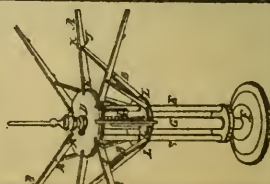
104,210, E. B. SCATTERGOOD. GATES.

104,211, GEORGE W. SCHOFIELD.
BREECH-LOADING FIRE-ARMS.104,212, PHILIP J. SCHOPP. GRATE AND
FIRE-POT FOR HEATING-STOVES.104,213, FRANCIS E. SCOTT.
DRAIN-TILE.104,214, CORNELIUS S. SEE. ATTACHING
SPONGE-HOLDERS TO TABLES.

104,215, THOMAS SHAW PILE-DRIVERS.

104,216, GERARD SICKELS.
EYE-GLASS HOLDERS.104,217, H. JULIUS SMITH.
ELECTRIC FUSE-HEADS.104,218, JOHN F. SMITH.
HARRISON UNDERWOOD.
ROOT-CUTTERS.104,219, JOHN Y. SMITH. METALLURGIC
FURNACE FOR IRON AND STEEL.104,220, JOHN Y. SMITH.
PROCESS FOR PURIFYING AND
REDUCING MAGNETIC ORES OF IRON.104,222, ROSWELL T. SMITH.
JOSEPH K. PRIEST.
WM. EARL.
ANIMAL-SHEARING MACHINE104,223, W. SOPER.
BREECH-LOADING FIRE-ARMS.104,224, D. C. STARKY.
VALVE-GEAR OF STEAM-ENGINES

104,225, JOHN F. STILL. HEATING-STOVE

104,226,
JOHN STORER.
CATARACT MECHANISM
FOR STEAM-ENGINES.104,227,
LEROY M. STREETER
CLOTHES-DRIER.

104,228, W. K. THOMAS.

WINDOW-GUARDS.

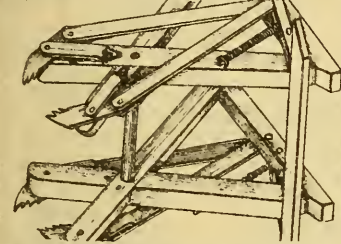


104,229, JAMES TWAMLEY.

TAG FOR SHOE-STRINGS.

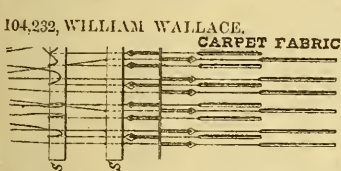


104,230, PETER TYLER, SAW-BUCKS.

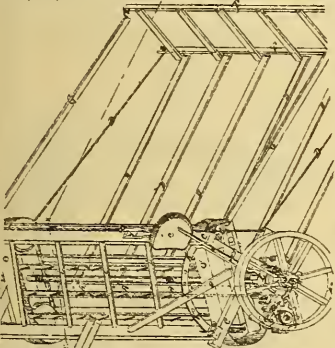


104,231, WENDELL P. VAN KLEECK.

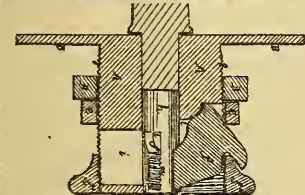
EMERY POLISHING-WHEELS, &c.



104,233, CHAS. WASTE, HAY-GATHERER.

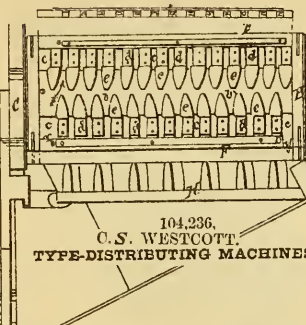
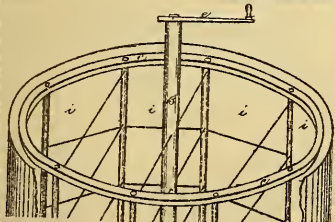
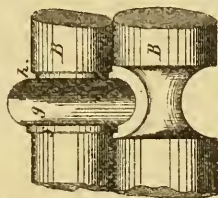
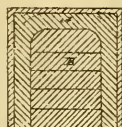
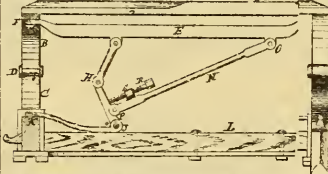
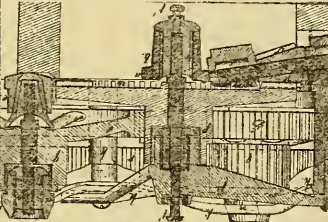
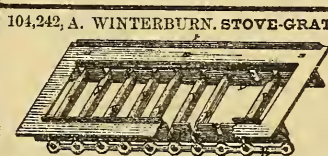
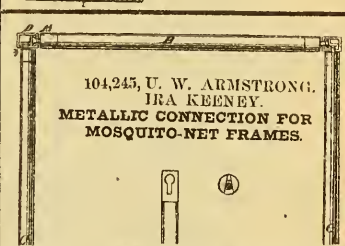


104,234, JAMES E. WEAVER, DIE FOR CUTTING SCREW THREADS ON BOLTS.

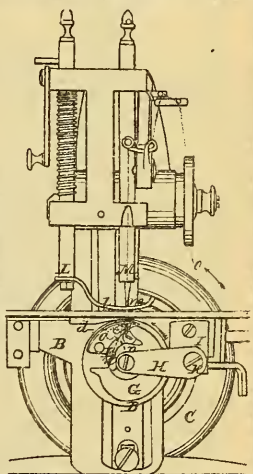
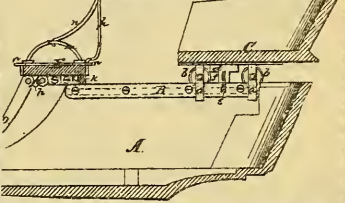
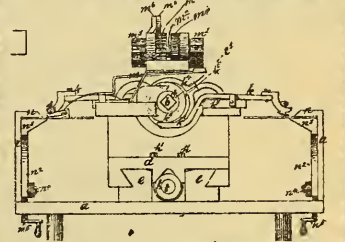


104,233, GLORY ANN WELLS.

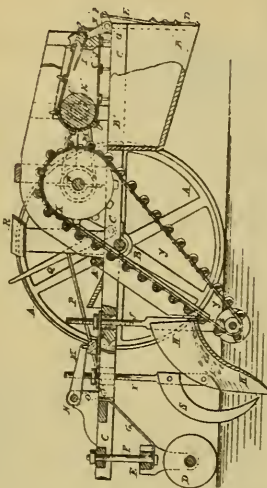
DISH-WASHER.

104,237, ELLRIDGE WHEELER.
COMBINED IRON AND STEEL BAR.104,238, ELLRIDGE WHEELER.
THE MANUFACTURE OF
RAILS FOR RAILROADS.104,239, O. H. WHEELER.
CARRIAGE-SPRING GUARD.104,240, SETH WHEELER.
HORSE-POWERS.104,241, ROBERT WINTER.
COLORING PHOTOGRAPHS.104,242, A. WINTERBURN, STOVE-GRATE.
BENJ. F. WRIGHT,
104,243, CHAIR-SEAT.JOSEPH F. APPELGATE.
104,244, BUNGS.104,245, U. W. ARMSTRONG.
IRA KEENEY.
METALLIC CONNECTION FOR
MOSQUITO-NET FRAMES.

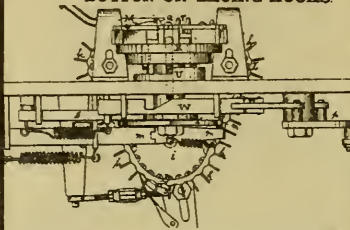
ALBERT C. BAKER, STEAM-RADIATOR.

104,247,
WALKER B. BAYTRAM.
SEWING-MACHINES.104,248, SYLVESTER W. BEACH.
SHIFTING CARRIAGE OR
BUGGY-SEATS.104,249, CHARLES S. BEMENT, MACHINE
FOR GRADUATING SQUARES.104,250, SAMUEL J. BESTOR.
CIGAR-PUNCH.

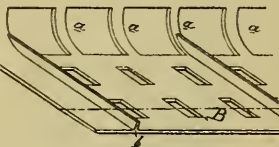
104,251, DANIEL HIBBEE.
WILLIAM RAND. POTATO-DIGGERS.



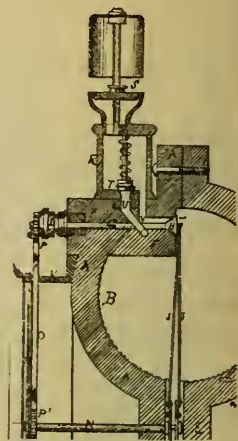
104,257, HORACE C. BRADFORD.
MACHINES FOR SETTING
BUTTON OR LACING-HOOKS.



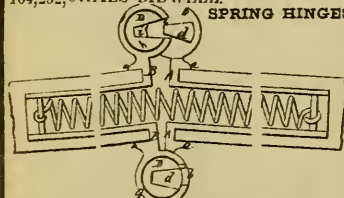
104,258, LEWIS BRIDGE.
STOVE-GRATE.



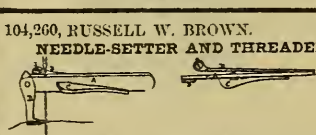
104,265, WILLIAM BUTTERFIELD.
HIGH AND LOW-WATER INDICATOR.



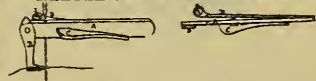
104,252, JAMES BIDWELL.
SPRING HINGES.



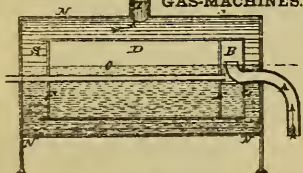
104,259, THOMAS BRISTOW.
COLORING-MATTER FROM
MADDER FOR DYEING.



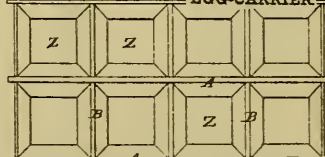
104,260, RUSSELL W. BROWN.
NEEDLE-SETTER AND THREADER.



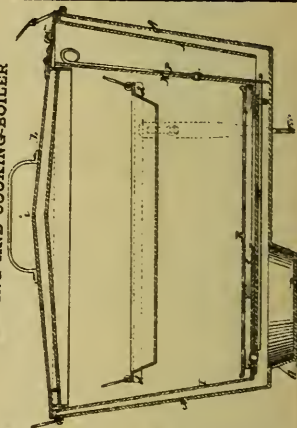
104,253, WILLIAM W. BINNY.
GAS-MACHINES.



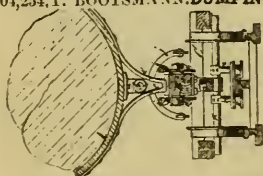
104,261, ABNER H. BRYANT.
EGG-CARRIER.



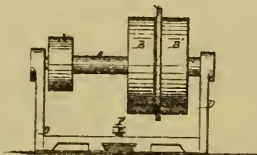
104,266, NATHAN T. CASE.
ENMA J. CASE.
WASHING AND COOKING-BOILER.



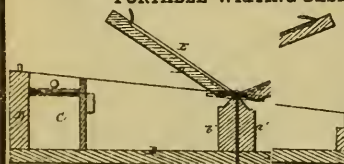
104,254, T. BOOTSMANN. DUMPING-CARS.



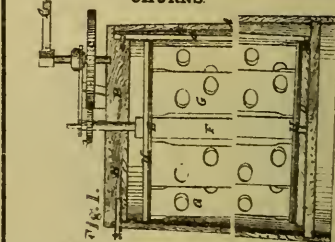
104,262, ANDREW J. BURKE.
GRINDING ATTACHMENT FOR
CARDING-MACHINES.



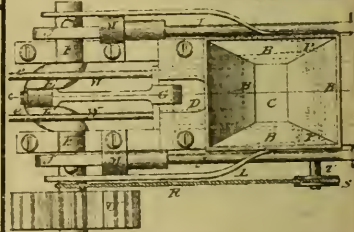
104,255, WILLIAM BOTHE.
PORTABLE WRITING-DESK.



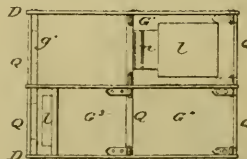
104,267,
HENRY CASLOW.
CHURNS.



104,268, JOS. L. CHAPMAN.
BRICK-MACHINES.



104,263, W. H. BUTLER.
SAFE-DEPOSIT BOXES.



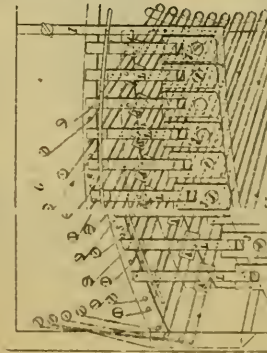
104,264, S. R. BUTTERFIELD.
BOLT-HOLDERS.

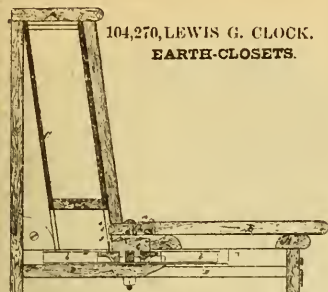


104,269,
DE WITT C. CLARK.
HENRY W. CADY.
COAL-STOVE.



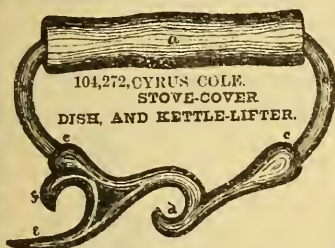
104,256,
WILLIAM BOURNE.
PIANO-FORTES.



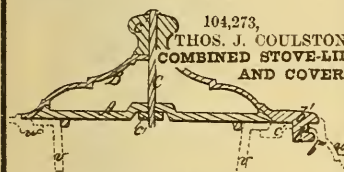


104,270, LEWIS G. CLOCK.
EARTH-CLOSETS.

THEODORE CLOUGH. GAS-BURNERS.
104,271,

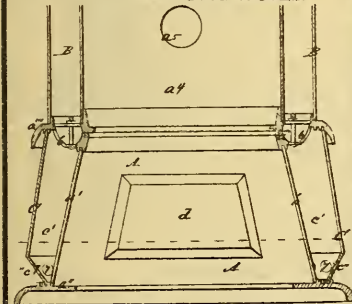


104,272, CYRUS COLE.
STOVE-COVER
DISH, AND KETTLE-LIFTER.

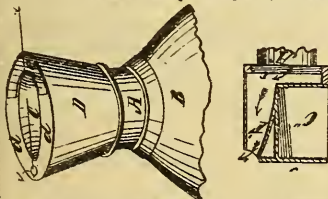


104,273,
THOS. J. COULSTON.
COMBINED STOVE-LID
AND COVER.

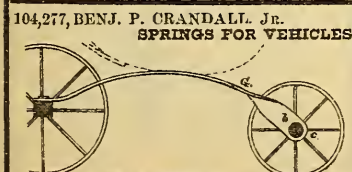
104,274, THOS. J. COULSTON.
HEATING-STOVES.



104,275, E. T. COVELL. REVERSIBLE
CAP AND SPOUT FOR OIL-CANS.

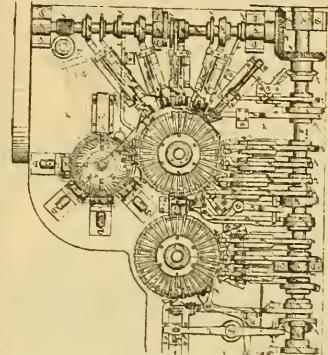


104,276, G. W. CRABTREE.
J. G. STOAKES.
COMPOSITION FOR TANNING.

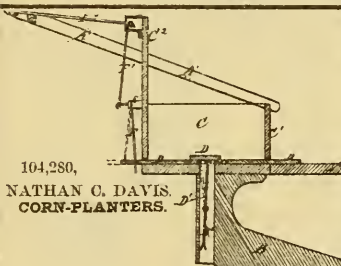


104,277, BENJ. P. GRANDALL JR.
SPRINGS FOR VEHICLES.

104,278, CHAUNCEY O. CROSBY.
MACHINES FOR MAKING NEEDLES.

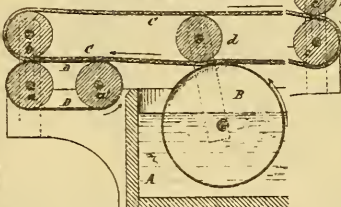


104,279, DANIEL CURRIE.
LUBRICATORS.

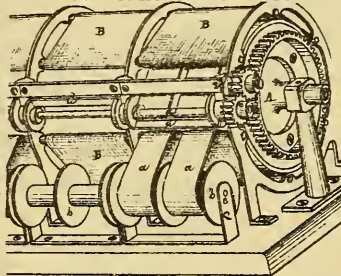


104,280,
NATHAN C. DAVIS.
CORN-PLANTERS.

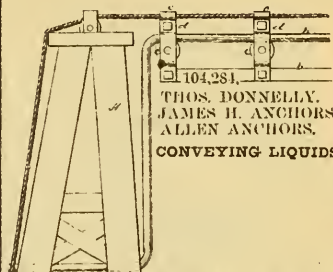
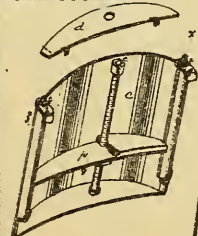
104,281, LEVI DODGE.
MANUFACTURE OF PAPER



104,282, LEVI DODGE.
MANUFACTURE OF PAPER.



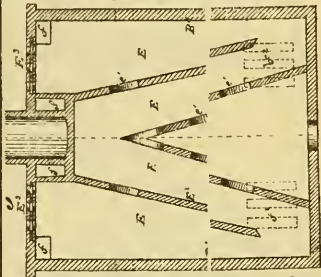
104,283, WILLIAM B. DOLSEN.
MILLSTONE-BALANCE
AND COOLER



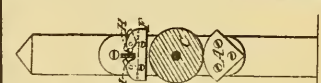
104,284,
THOS. DONNELLY,
JAMES H. ANCHORS,
ALLEN ANCHORS.
CONVEYING LIQUIDS.

104,285, PETER DOYLE.
FREDERICK P. COLTON.
COMPOUND FOR POLISHING
AND CLEANING MARBLE.

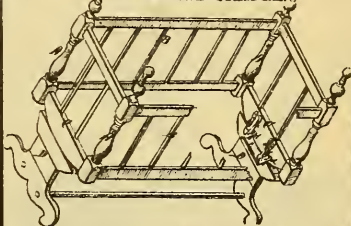
104,286, WM. M. FAMES. VENTILATING
ATTACHMENT FOR STOVES



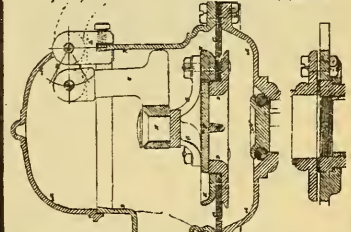
104,287, E. EDWD. EARLL.
J. B. HUNTER. GATE-LATCHES.



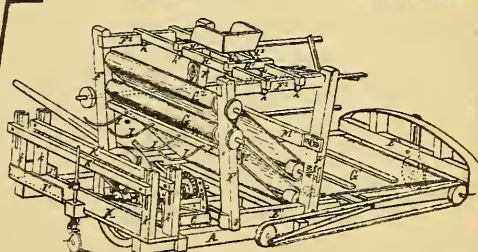
104,288, WILLIAM H. EARNST.
CRIB AND CRADLE.



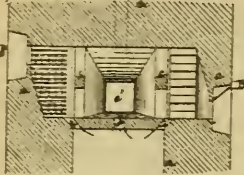
104,289, EDMUND EDWARDS. PUMPS.



104,290, J. H. ELWARD. HARVESTER.



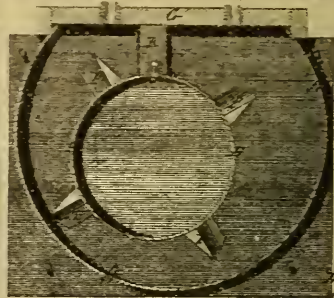
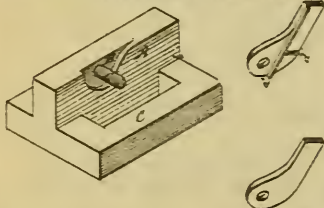
104,291, THOMAS ENNETT. LIME-KILNS.



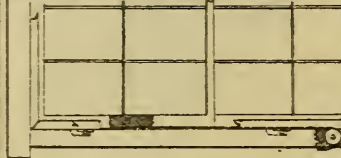
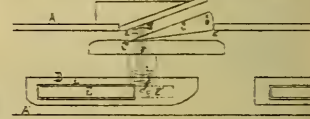
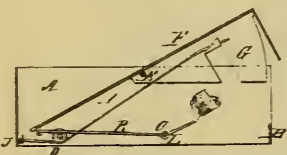
104,298, EDWIN GIBBS. PLATE-LIFTER.



104,304, FRANCIS M. HARRIS. CHURNS.

104,292, JOHN EVANS.
DIE FOR FORGING EARS FOR
CARRIAGE-SPRING HEADS

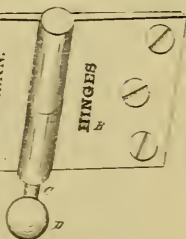
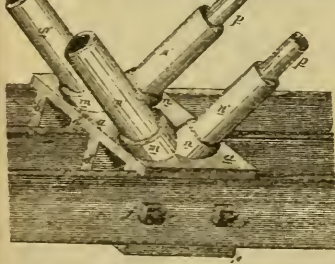
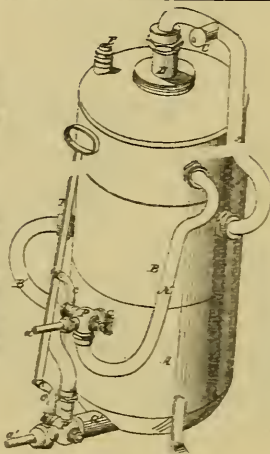
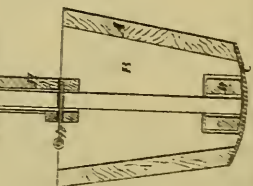
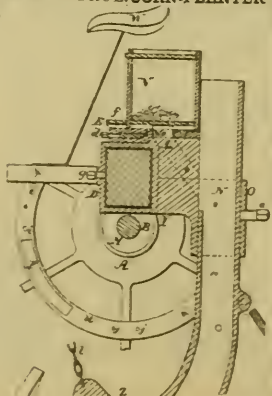
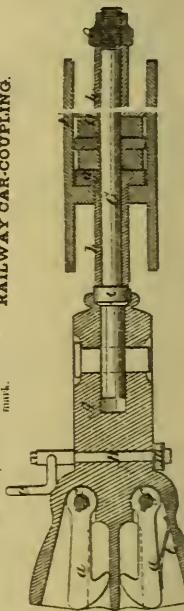
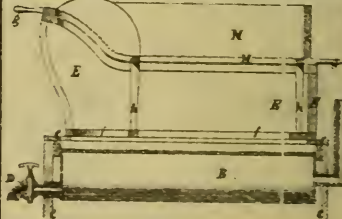
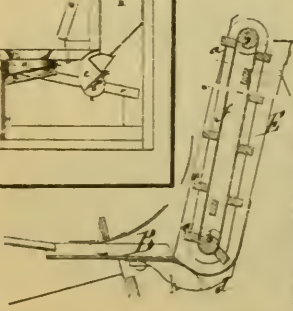
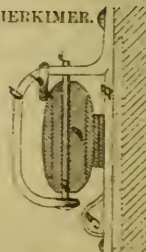
104,299, E. W. GIDDINGS. WINDOWS.

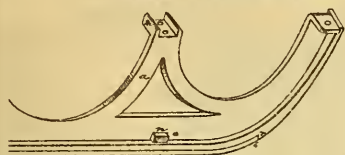
N. F. HAWKINS. RAILWAY-SWITCH.
104,295.104,293, EDWIN BRONSON EVERITT.
ANIMAL-TRAP104,300, FRANKLIN T. GRIMES.
INKSTANDS.

104,294.

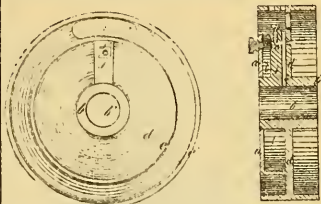
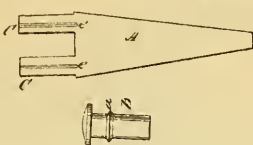
G. F. FISCHER.
A. WHELAN.

HINGES

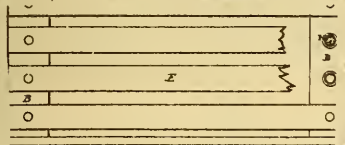
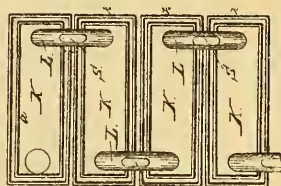
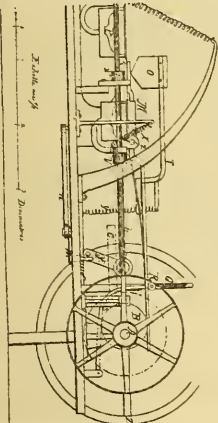
JOHN FOREMAN.
104,295 TRUSS-FRAME BRIDGES.104,301, JOHN F. GRUBER.
PNEUMATIC LIQUID-ELEVATORS.104,302,
W. D. GUSEMAN.
JAS. A. DAVIS.
H. D. McGEORGE.
SEED-SOWERS.E. E. HARDY.
NAPOLEON D'EBRUL. CORN-PLANTER
104,303.104,306, ALEXIS HEBERT.
RAILWAY CAR-COUPLING.104,307, LOUIS HEINE.
CHARLES SCHOLFIELD.
MEDICATED STEAM-BATH APPARATUS.104,296,
JOHN A. FRENCH.
EARTH-CLOSETS.104,297, JACOB C. GEPHART.
BAG-FILLER FOR FANNING-MILLS.104,308, JACOB HEIKIMER.
REIN-HOLDER.

104,309, DANIEL HOLDIMAN.
METAL SLEIGH-RUNNER.

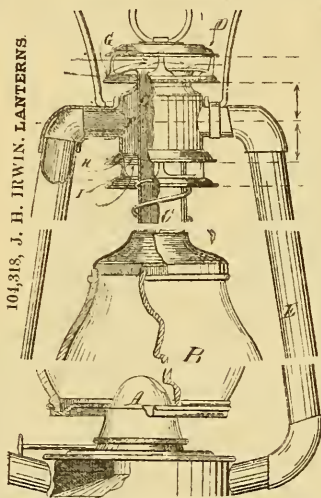
104,316, GEO. S. HURFORD. HINGES.



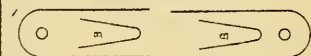
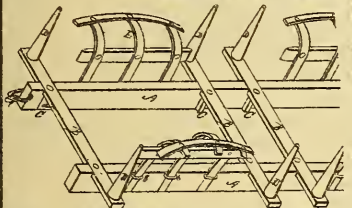
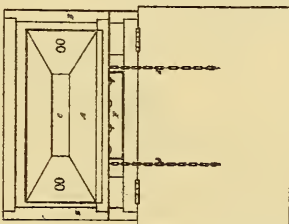
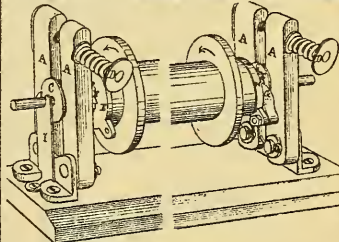
104,310, ENOCH HOPKINS. BED-BOTTOM.

104,317, SIMON INGERSOLL.
RATCHET-DRILLS104,323, RICHARD F. KNOX.
JOSEPH OSBORN.
FURNACE AND CONDENSER FOR
REDUCING CINNABAR AND OTHER
VOLATILE ORES.104,311, E. N. HORSFORD.
MEDICINAL AND OTHER
MANUFACTURE OF BEVERAGES FOR
PURPOSES.104,312, C. HOTZ.
MACHINE FOR MAKING PAPER TUBES

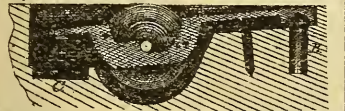
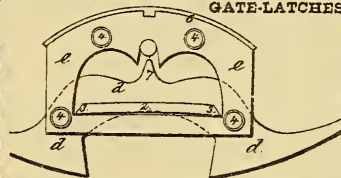
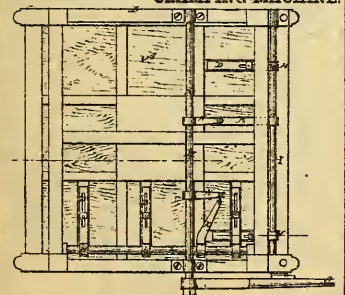
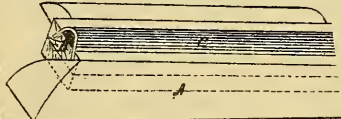
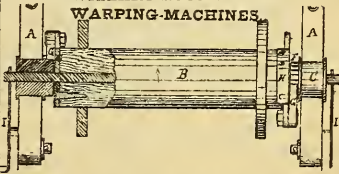
104,318, J. H. IRWIN. LANTERNS.



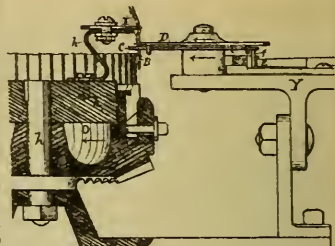
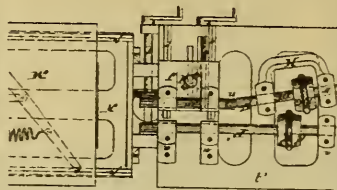
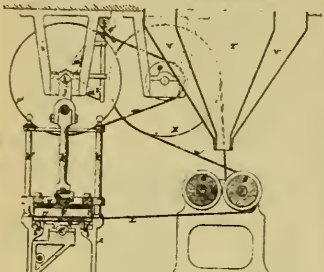
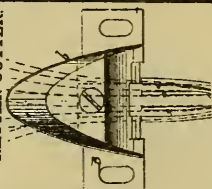
104,324, THOMAS P. KNOX. VIOLINS.

104,325, GABRIEL LEVERICH.
A. H. EMERY.
CONCRETE PAVEMENTS.104,326, CHARLES B. LONG.
STEAM AND GAS-PIPE HOOK.104,313, JOHN A. HUGHES.
HAY-SHELVES OR
RACKS FOR WAGONS104,319, GEO. B. JEWETT.
EARTH-CLOSETS.104,327, ORAZIO LUGO.
MANUFACTURE OF
FERTILIZERS FROM FISH.104,328, JAMES MAGEE.
LET-OFF MECHANISM FOR LOOMS.

104,314, R. B. HUGUNIN. SASH-HOLDERS.

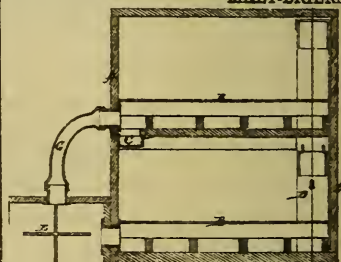
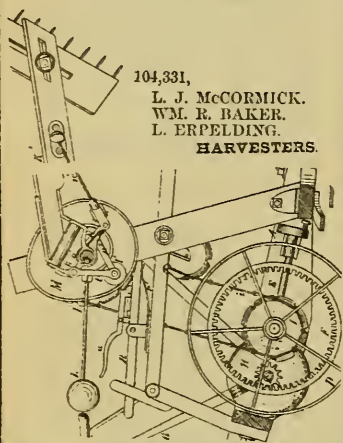
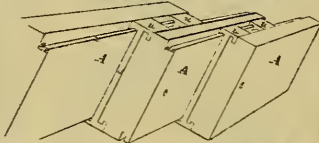
104,320, JOB JOHNSON.
SIMON INGERSOLL.
GATE-LATCHES.104,315, JAMES H. HUMES.
CLAMPING-MACHINE.104,321, JOSEPH JOHNSTON DOOR-SILLS.
E. O. MARLOW.104,329, COLIN MATHER.
WILLIAM ROSSETTER.
WARPING-MACHINES.104,322, CHARLES A. KING.
OILERS FOR LOOSE PULLEYS.

104,330. H. MAUTHE. BRICK-MACHINE.

104,338.
JOHN MURPHY.
RATTAN-CUTTER.

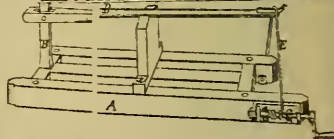
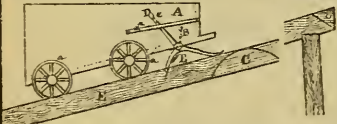
104,347. WILLIAM L. PHILLIPS.

MALT-DRIERS.

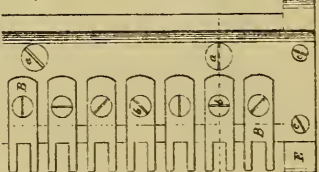
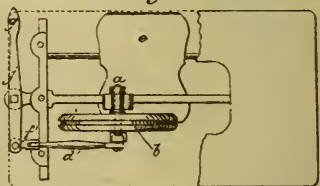
104,331,
L. J. McCORMICK.
WM. R. BAKER.
L. ERPELDING.
HARVESTERS.104,339. GEO. F. NEWCOMB.
BAGGAGE-CHECKS.104,340. HENRY OLDS.
EXTENSION-TABLE SLIDE.

104,348. D. GOFFE PHIPPS.

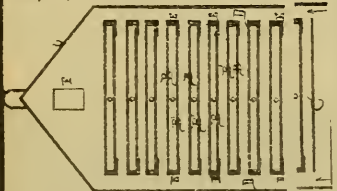
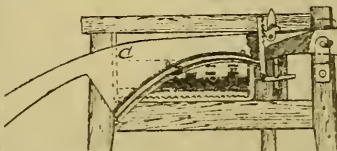
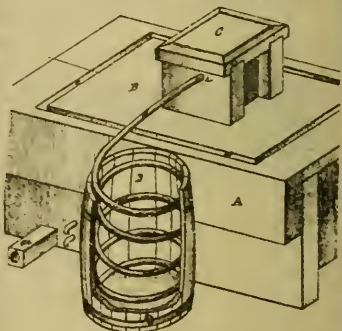
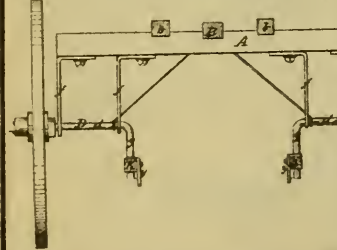
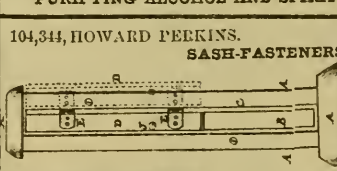
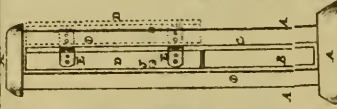
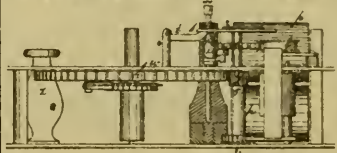
CEMENT PIPES.

104,349. DANIEL POTTER.
HAY-BINDER POLE FOR WAGONS.104,332. THOMAS McCORRY.
COAL-CARS.

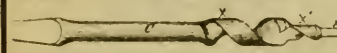
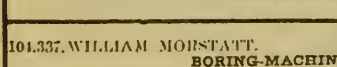
104,341. CHARLES F. OLIVER. PIANOS.

104,350. ORLANDO B. POTTER.
TREADLE MOVEMENTS.

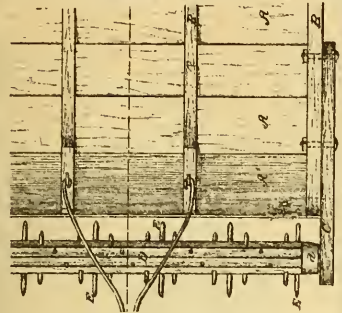
104,333. PETER MICKEL. DRIER.

104,342. NELSON O'NEIL.
STRAW-CUTTERS.104,351. MARK H. POWERS.
EVAPORATOR AND STILL.104,334. SAMUEL H. MITCHELL.
CULTIVATORS.104,343. CHARLES CHAUNCEY PARSONS.
PURIFYING ALCOHOL AND SPIRITS.104,344. HOWARD PEEKINS.
SASH-FASTENERS.104,345. WM. P. PHELPS.
W. J. PHILLIPS.
PRINTING-TELEGRAPH INSTRUMENTS.

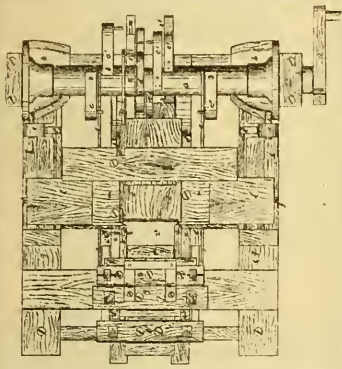
104,335. C. MONSON. AUGER.

104,336. AUSTIN S. MORSE.
EDWIN A. JEFFERIES.
FIRE-KINDLER.104,346. DAVID C. PHILIP.
CLARK TOMPKINS.
IRA TOMPKINS.
KNITTING-MACHINE.104,352. GEORGE W. PUTNAM.
WATER-VESSELS FOR
STEAM FIRE-PROOF SAFES.

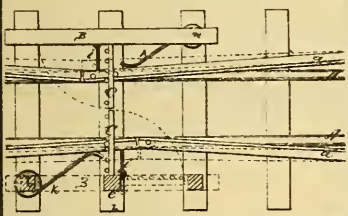
104,353, COMFORT R. RAMSEY.
CLOD-CRUSHERS AND PULVERIZERS.



104,354, SETH RIGBY, BRICK-MACHINE.

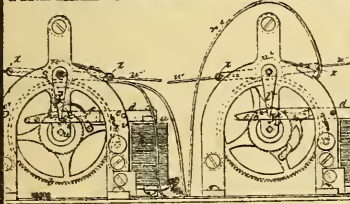


104,355, JOHN B. RITTENHOUSE.
JOSEPH COLLINS.
RAILWAY GATES.

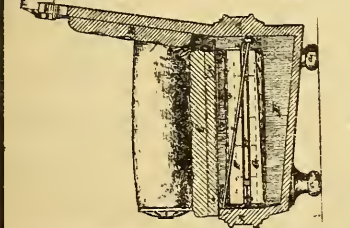


104,356, L. F. ROBERTSON, COMPOUND
TO INCREASE THE FRICTION
BETWEEN BELTS AND PULLEYS.

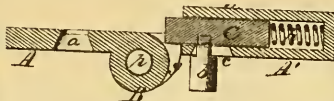
104,357, EDWIN ROGERS.
FIRE-ALARM TELEGRAPH APPARATUS.



104,358, JAMES J. RUSS, SOFA-BED.



104,359, D. C. SAGE.
HINGES FOR BLINDS.



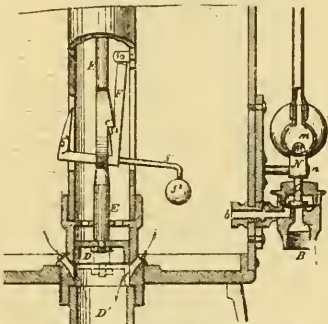
104,360, JOHN J. SCHILLINGER.
WALLS AND FLOORS FOR BUILDINGS.



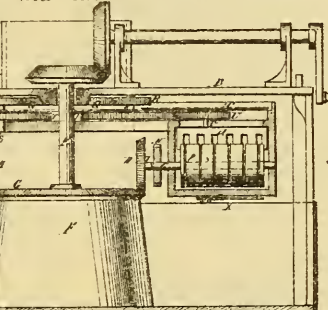
104,361, JOHN SCHWAB.
BLACKING-BRUSH AND CASE.



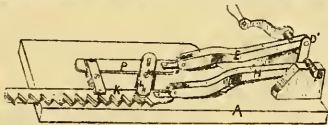
104,362, WM. D. SEAL, HYDRAULIC
AIR-COMPRESSING APPARATUS.



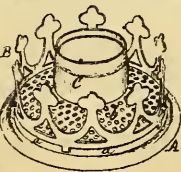
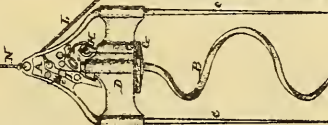
104,363, HENRY SEIB, MEAT-CUTTER.



104,364, HENRY F. SHAW, CUTTING
APPARATUS FOR MOWING-MACHINES.

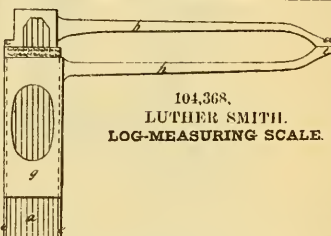
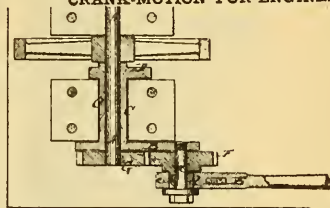


104,365, AMOS SHELLENBERGER.
HORSE HAY-FORKS.



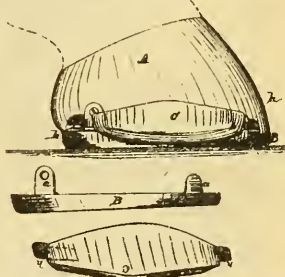
104,366,
GEO. L. SMITH.
LAMP-BURNERS.

104,367, JOHN SMITH.
GODFREY JOITHE.
CRANK-MOTION FOR ENGINES.

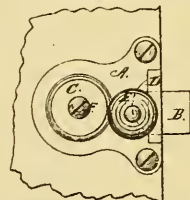


104,368,
LUTHER SMITH.
LOG-MEASURING SCALE.

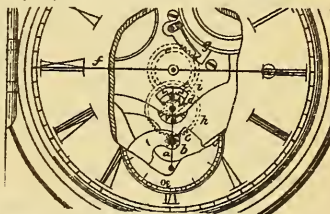
104,369, WM. SOMERVILLE.
INTERFERING-PAD FOR HORSES.



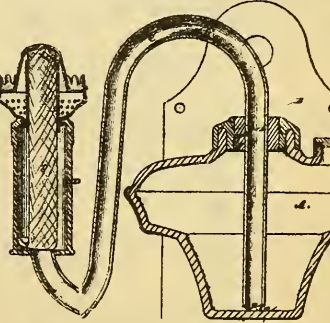
104,370, WILLIAM E. SPARKS.
LATCHES FOR CUPBOARDS.



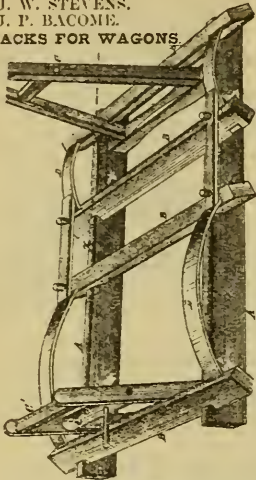
104,371, HENRY STAUFFER, WATCHES.



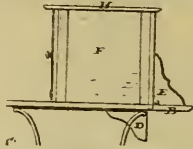
104,372, LEONARD STERLING, LAMPS.
T. W. WILLSON.



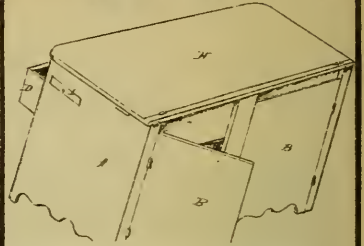
104,373, J. W. STEVENS,
J. P. BACOME.
HAY-RACKS FOR WAGONS.



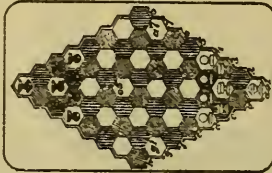
104,378, W. P. UHLINGER.
JUSTUS DOERING.
SEWING-MACHINE COVER.



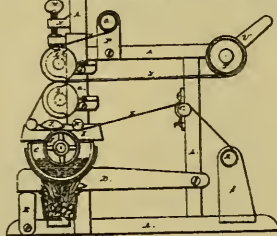
104,385, MARGARET WHITE.
IRONING-TABLE AND BUREAU.



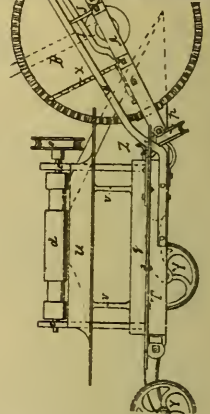
104,379, N. J. VANDER WEYDE, GAME.



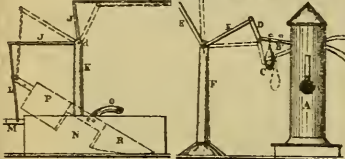
104,380, EDWARD VAN ORDEN, MACHINE
FOR MAKING ROOFING FELTING.



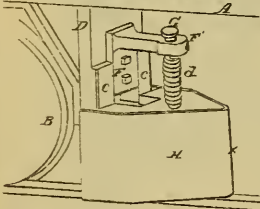
104,386, W. N. WHITELEY.
HARVESTER.



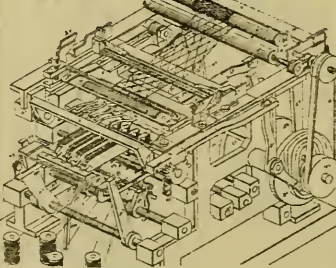
104,374, DAVID STONER.
PUMPING-APPARATUS.



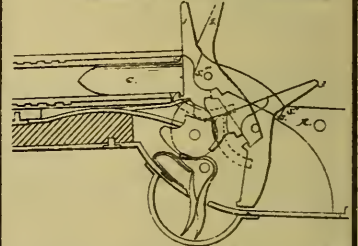
104,375, R. R. TAYLOR.
RAILWAY-TRACK CLEARER.



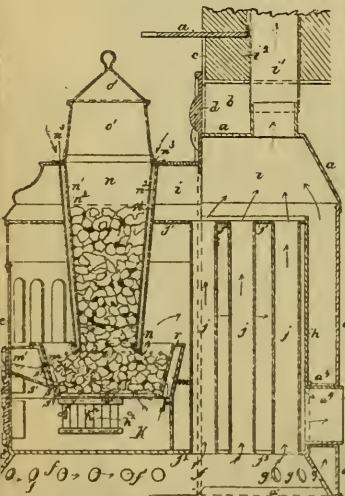
104,381, ALOHA VIVARTAS.
MACHINES FOR MAKING NETTING.



104,387, JAS. M. WHITEMORE.
BREECH-LOADING FIRE-ARMS.



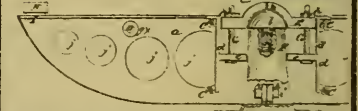
104,376, J. M. THATCHER.
FIRE PLACE HEATER.



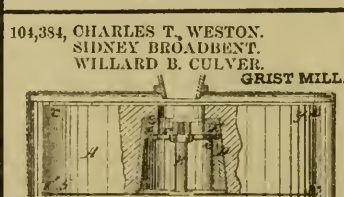
104,382,
RUDOLPH L. WALTER, PAPER OR
PAPER-AND-CLOTH NECK-TIES.



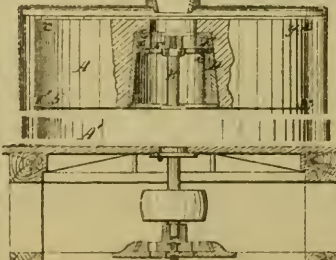
104,388, ANDREW JACKSON WIGHT.
WILLIAM LEWIS MEEKER.
CAST-IRON TURN-TABLE FOR
RAILWAYS.



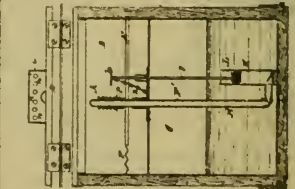
104,383, CHARLES C. WARREN.
JAMES B. BALDY.
PROCESS FOR CLEANING
AND POLISHING COFFEE



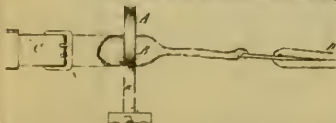
104,384, CHARLES T. WESTON.
SIDNEY BROADBENT.
WILLARD B. CULVER.
GRIST MILL.



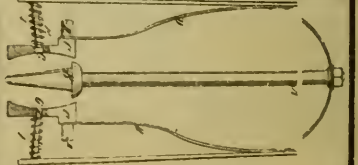
104,389, M. H. WILEY, OIL CABINET.



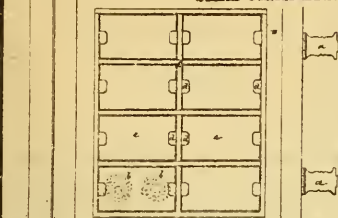
101,377, ALBERT THAYER.
WM. A. HASTINGS.
CHECK REIN ATTACHMENT.



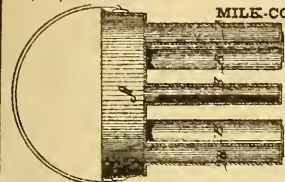
104,390, JAMES WILSON.
TOOL FOR MAKING BOTTLES.



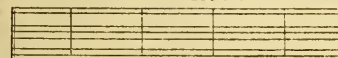
104,391, A. T. WOODWARD.
CARD-CABINETS.



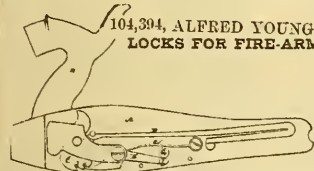
104,392, DAVID F. WOODWARD.



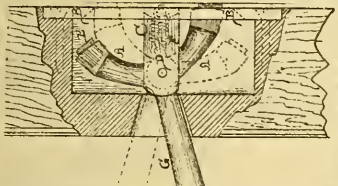
104,393,HORTON WRIGHT.
MUSICAL STAFF.



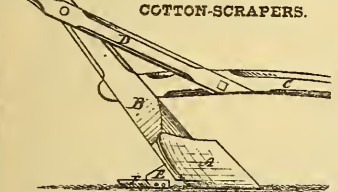
104,394, ALFRED YOUNG.
LOCKS FOR FIRE-ARMS.



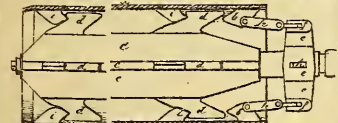
104,395, JOHN F. ZACHARIAS.
SASH-HOLDERS.



104,396, JAMES LYTCIL
COTTON-SCRAPERS.

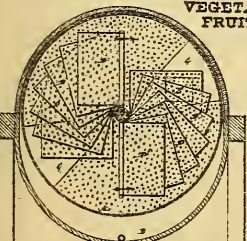


104,397, JOHN ENRIGHT.
CORE-BARS FOR CASTING PIPE

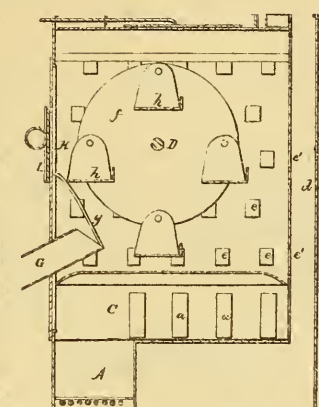


4,025, E. D. AVERELL.
JOSEPH MALAN.

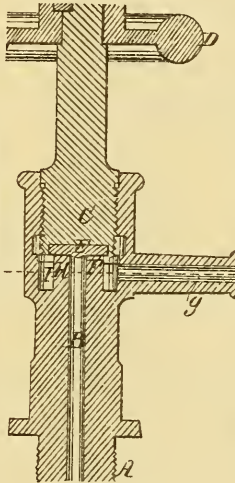
VEGETABLE AND
FRUIT-PEELER.



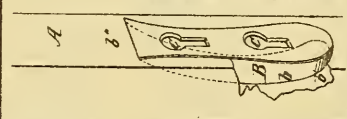
4.026. H. BALL. OVEN.



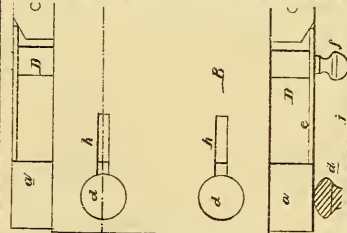
4,027, OSCAR T. MARLE,
STEAM-GAUGE COCKS.



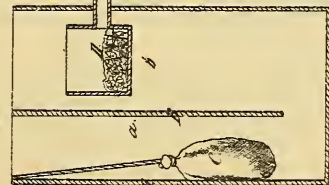
4,028, JAMES L. HAVEN & CO.
BEDSTEAD-FASTENING



4.029. E. J. HOWLETT. TOOL FOR
MANUFACTURING PAPER BAGS.



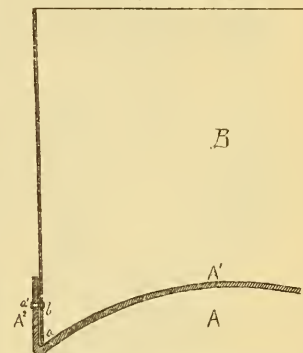
4,030, JEHYLEMAN SHAW.
RECOVERING GOLD AND SILVER
FROM WASTE SOLUTIONS



4,031, LOUISE F. SHAW. IMITATION-
HAIR FOR LADIES' HEAD-DRESS.



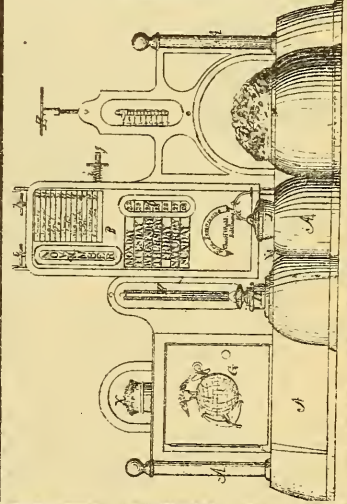
4,032, H. W. SHEPARD.
ROBT. SEAMAN.
METALLIC CAN-BOTTOM.



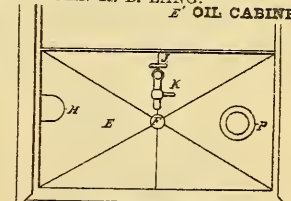
4,033, DENNIS H. TIERNEY.
FASTENINGS FOR NECK-TIES.



4,034, CHARLES H. WIGHT.
STATIONERY FURNITURE.



4,035, MOSES H. WILEY.
THOMAS MILLER.
JOHN H. B. LANG.
F' OIL CABINETS.

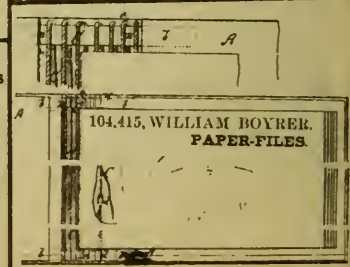
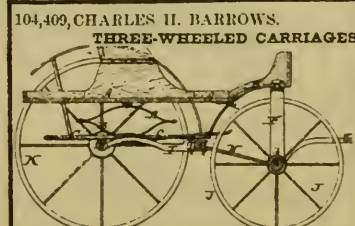
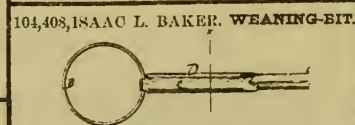
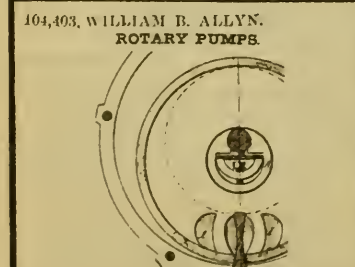
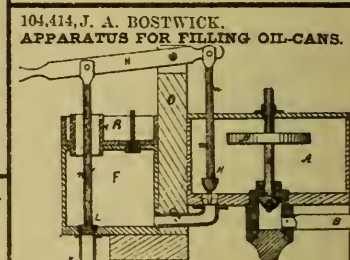
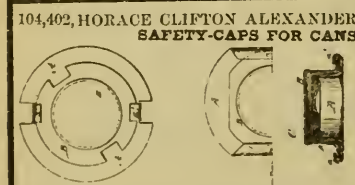
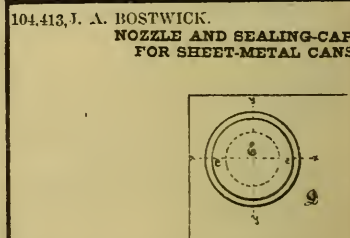
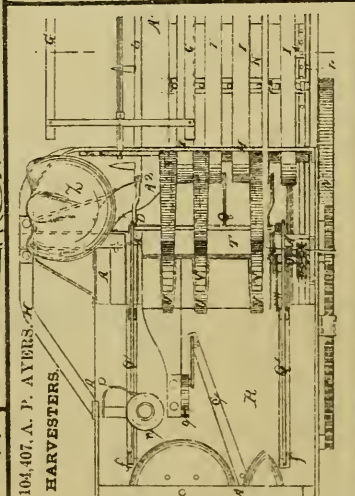
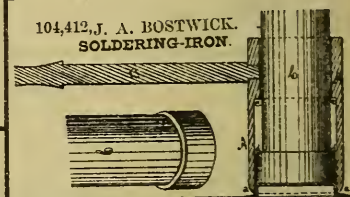
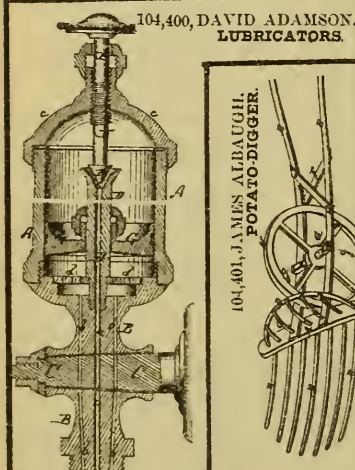
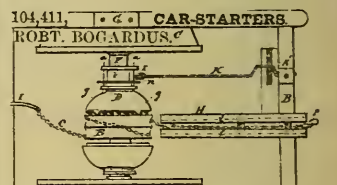
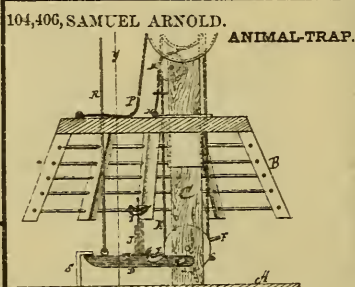
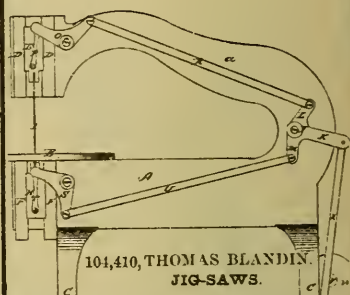
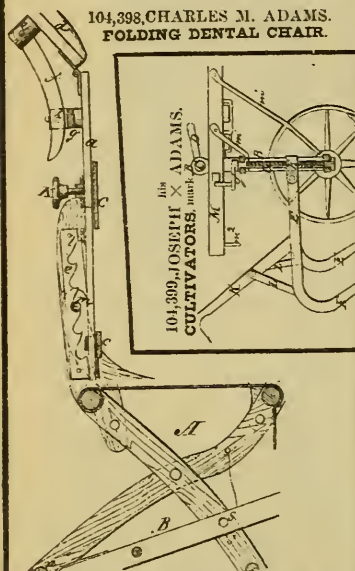


ILLUSTRATIONS OF PATENTS

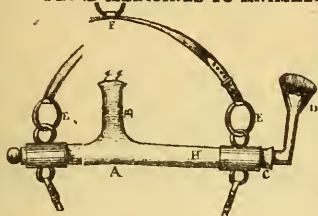
ISSUED FROM

THE UNITED STATES PATENT OFFICE

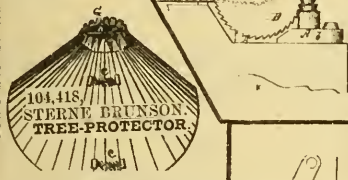
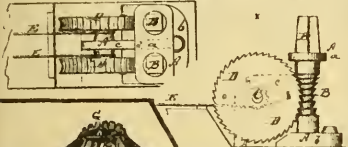
JUNE 21, 1870.



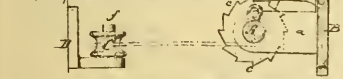
104,416, H. A. BRANDES.
INSTRUMENTS FOR GIVING
FLUID MEDICINES TO ANIMALS.



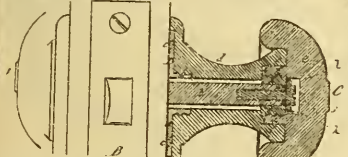
104,417, JULIUS M. BRANIG.
TUNING-PIN FOR PIANOS.



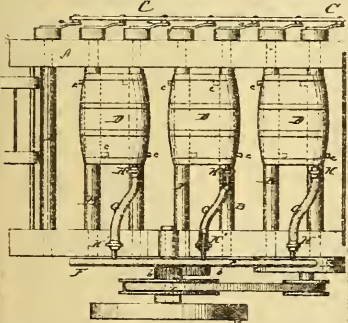
NATHANIEL E. BUFFINGTON.
CLOTHES-LINE HOLDER
AND STRETCHER.



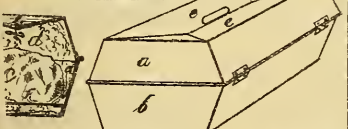
104,420, GEO. W. GADY, DOOR-KNOBS.



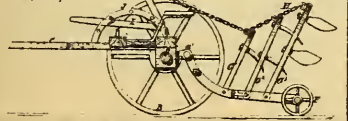
104,421, DAVID CAMMERER.
APPARATUS FOR AGITATING AND
COOLING BARRELS AND CASKS
DURING THE PROCESS OF PITCHING.



104,422, JOHN J. CARROLL.
DEVICE FOR ROASTING
AND BAKING.

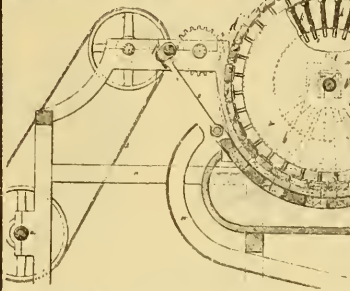


JAMES A. CASEY, SULKY-HARROWS, &c.
104,423,

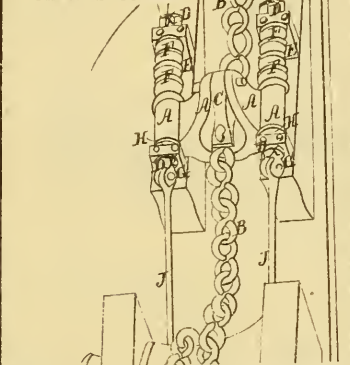


104,424, ANGELO CATTANEO.

MACHINES FOR FELTING HATS.



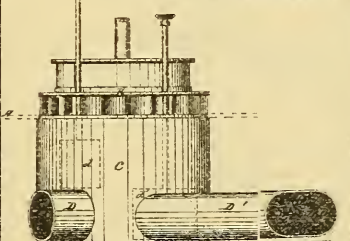
ETHAN R. CHENEY, 101,425.
JOHN J. EMERY.
CABLE-STOPPERS



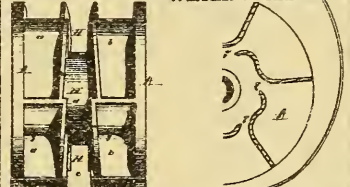
104,426, EDW. B. CLARK, PIPE-TONGS.



104,427, WILLIAM A. CORB.
INCLOSED TAIL-RACES
OF WATER-WHEELS.

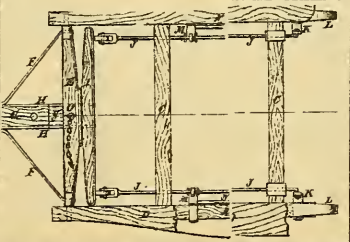


104,428, ALPHEUS C. CORPEL.
WATER-WHEELS.

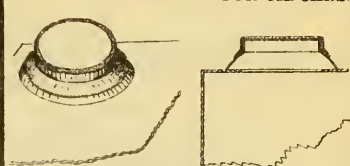


104,429, JOHN E. COUTANT.

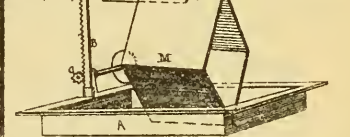
SLED-BRAKE



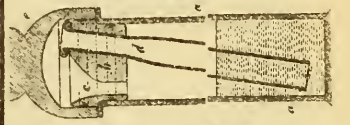
104,430, E. T. COVELL. NOZZLE AND CAP
FOR OIL-CANS.



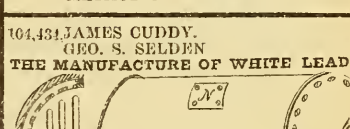
E. T. COVELL. SOLDERING-MACHINE.
104,431,



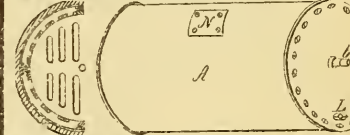
104,432, DANIEL H. CROSS.
VIAL FOR FILTERING COLLODION.



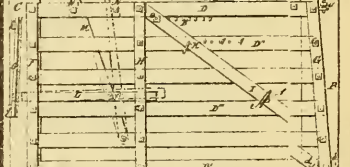
104,433, VELEUS W. CROUSEN.
METHOD OF COVERING WHIPS.



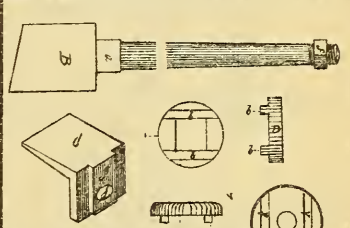
104,434, JAMES CUDDY.
GEO. S. SELDEN
THE MANUFACTURE OF WHITE LEAD



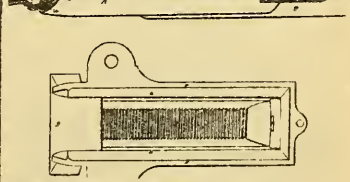
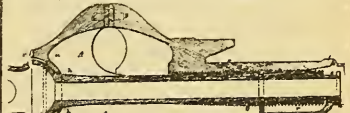
104,435, JOHN DICKASON.
FARM-GATE.



104,436, CHARLES T. DURHAM.
JAMES WOOD.
THEODORE HAIR.
GAUGE-KNIFE FOR CUTTING LEATHER.



104,437, JACOB EDSON. VISE.

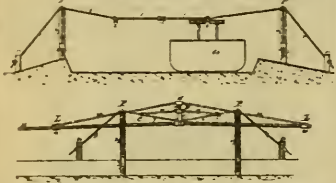
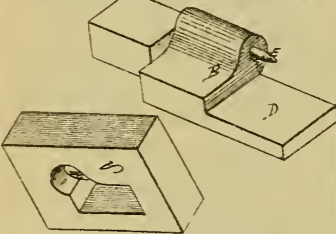
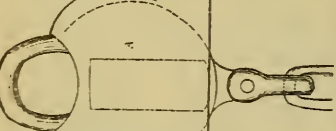
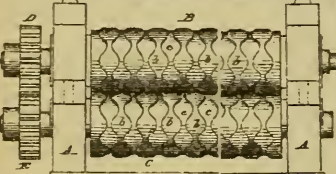
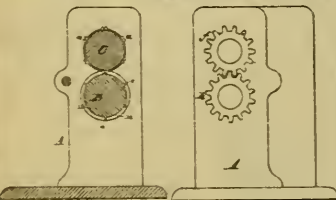
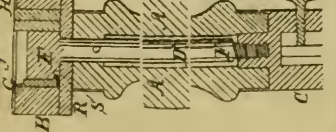


104,438, JOHN H. ELLIS.

MACHINES FOR CANNING FRUIT.



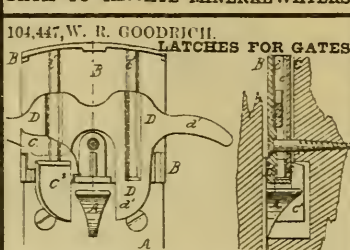
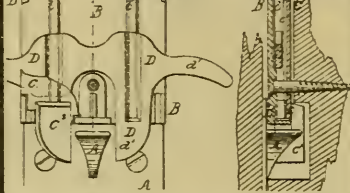
104,439, A. H. EMERY.

GABRIEL LEVERICH APPARATUS
FOR TOWING CANAL-BOATS.104,440, JOHN EVANS. DIE FOR FORGING
EARS FOR CARRIAGE-SPRING HEADS.C. C. GALE. SHIELDS FOR PADLOCKS.
104,441.104,442, THOMAS GARRICK. MACHINE
FOR FORMING EYELET-STOCK.104,443, THOMAS GARRICK.
MACHINE FOR FEEDING STOCK
TO EYELET-MACHINES.104,444, JEREMIAH C. GASTON.
HAND-STAMPS.

104,445, A. W. GATES. CARD-CLOTHING.



104,446, OTTO GAVRON.

THE PREPARATION OF MINERAL
BATH TO IMITATE MINERAL WATERS104,447, W. R. GOODRICH.
LATCHES FOR GATES.

104,448, JEROME M. GRAY.

WEATHER-STRIPS FOR DOORS.



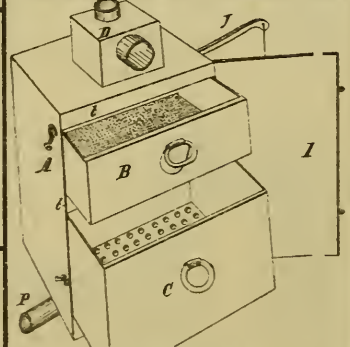
104,449, GEORGE B. GREEN.

BOLTS FOR DOORS AND SHUTTERS.



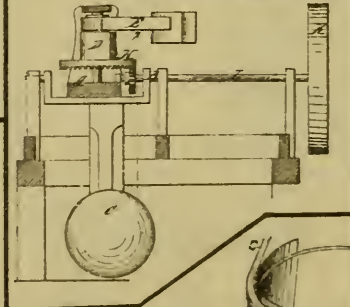
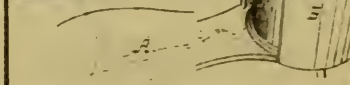
104,450, JAMES C. HALL.

RAIN-WATER CONDUCTOR AND FILTER

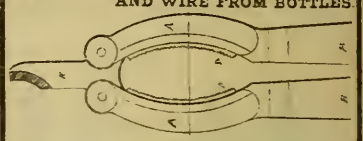


104,451, WILLIAM HANDMILL.

MECHANICAL MOVEMENT.

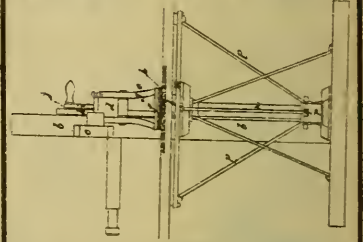
104,452, J. W. HAVILAND.
MILKING-STOOLS.

104,453, JOHN T. HAVILAND.

INSTRUMENT FOR REMOVING TWINE
AND WIRE FROM BOTTLES.

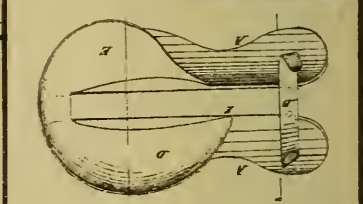
104,454, JOSEPH WARSON HILDRETH.

MACHINE FOR BOARDING LEATHER.

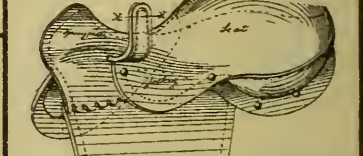


104,455, WILLIAM HILL.

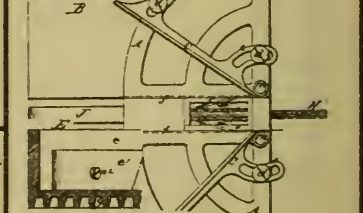
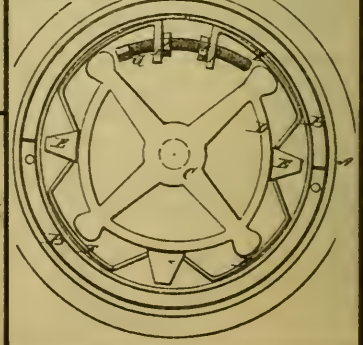
SIDE-SADDLE TREE.

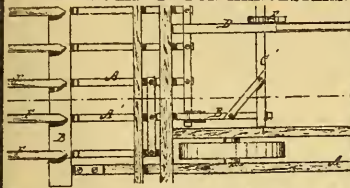
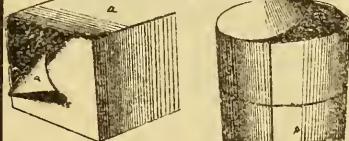
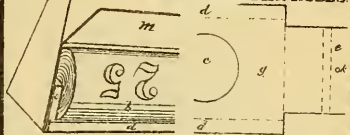


104,456, WILLIAM HILL. SIDE-SADDLE.

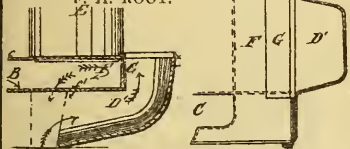
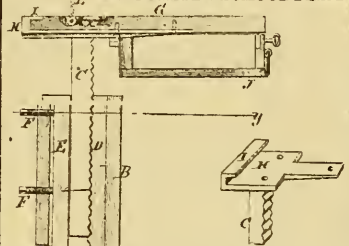
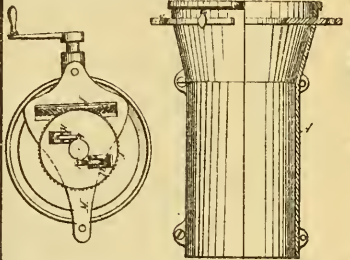
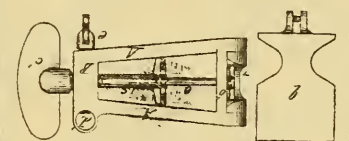
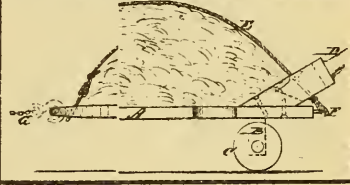
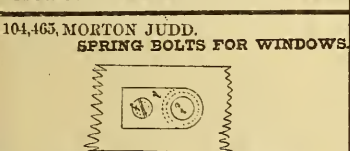
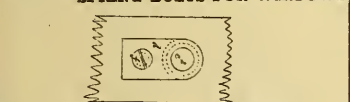


104,457, RICHARD H. HOPKINS. AUGER.

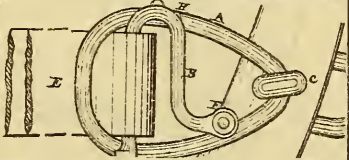
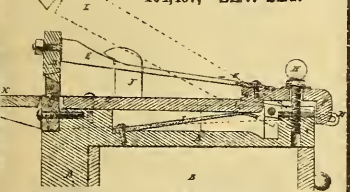
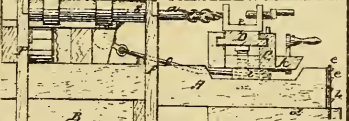
104,458, J. R. HOWELL.
MITER-MACHINES.104,459, JOHN HUGHES.
PISTON PACKING.

104,460, WM. M. JACKSON.
GRAIN-LIFTER FOR HARVESTERS.104,470, OSCAR LOEW. BLEACHING
DARK SOAPS AND "FOOTS."EMILE F. LOISEAU. 104,471.
CHARLES F. REQUIN. ARTIFICIAL FUEL.104,478, WILLIAM MCADAMS.
JOURNAL-BEARINGS
FOR CALENDAR-ROLLS.

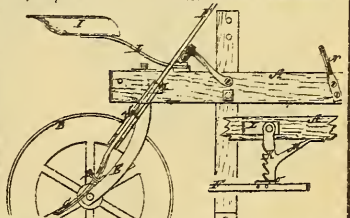
104,461, S. S. JEWETT. COOKING-STOVE.

104,472, CHARLES H. LOOMIS.
J. ADJUSTABLE SCHOOL-DESK.104,462, WILLIAM J. JOHNSON.
CAR-COUPPLINGS.104,479, JOHN MCCLELLAND. DEVICE
FOR MOLDING AND CASTING PIPE.104,463, ALBERT D. JUDD.
METALLIC BRACKET.104,473, BAXTER LYON. HEAD-REST.
CHARLES M. CURTIS.104,480, GALEN MEADERS.
HAY-GATHERER AND CARRIER.104,464,
ALBERT D. JUDD.
E. M. JUDD.
METALLIC BRACKET.104,465, MORTON JUDD.
SPRING BOLTS FOR WINDOWS.104,474, CHARLES E. MARSHALL.
SHIPS' PORTS.

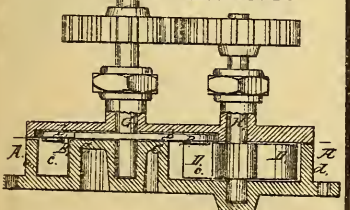
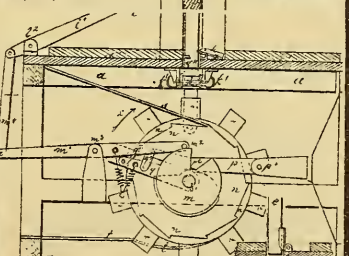
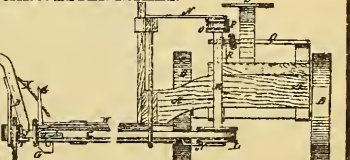
JOHN KENDALL. THERMOMETERS.

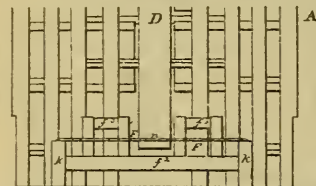
104,475, JOHN H. MARTIN.
BREAST-STRAP FASTENING
FOR HARNESS.MORITZ THEODORE KLAHRE.
104,467, SAW-SET.MACHINE FOR BORING POSTS AND
104,476, POINTING RAILS.
RUDOLPH MARTIN.
MATTHEW HARNER.

104,482, JESSE C. MILES. HARVESTERS.

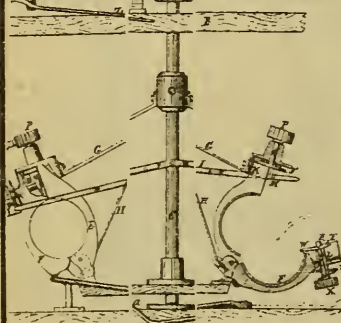
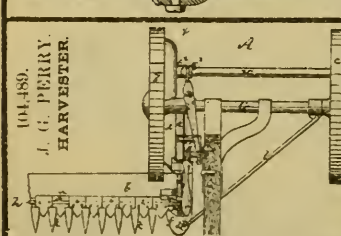
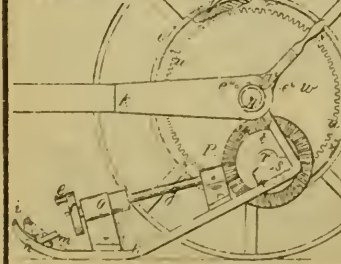
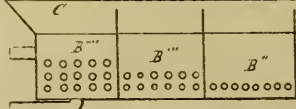
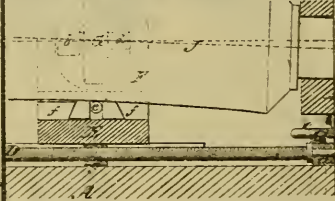
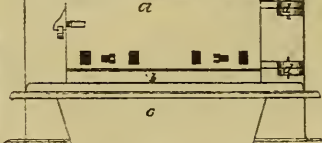
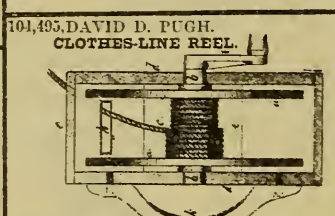
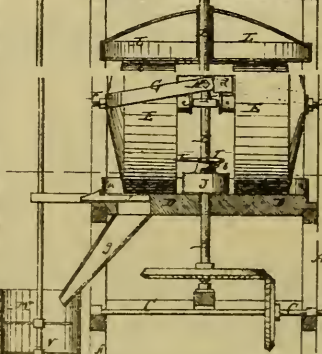
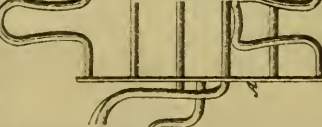
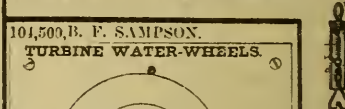
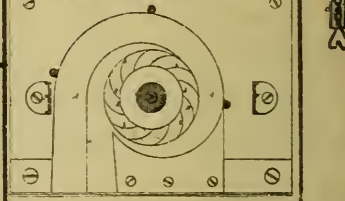
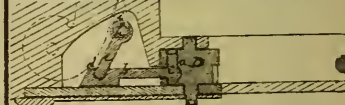
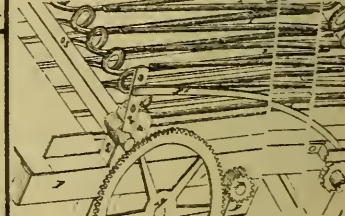
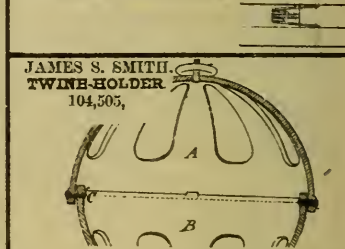
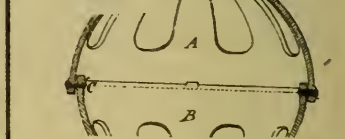


104,468. SUSPENDED.

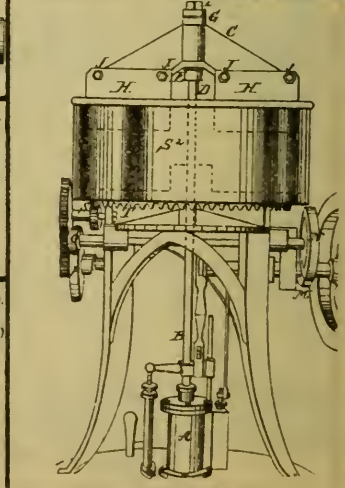
104,469, A. LEUCHTWEISS.
ROTARY PUMPS.CHAS. A. MAXFIELD. PAPER-BOX
104,477. MACHINES.104,483, WILLIAM WASHINGTON MILLER.
HARVESTER-RAKES.

104,484, D. E. MITCHELL.
DOUBLE-LEVER MASTER-WHEEL.

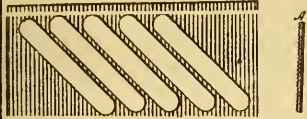
104,485, GEO. F. MORSE. SLEEPING-CARS.

104,486, MICHAEL C. MURPHY.
VENTILATING WINDOW
FOR RAILROAD-CARS.104,487, W. B. OGLESBY.
GRAIN BINDER.JOEL A. OTIS.
104,488,
PAIR-EARS.104,489, J. G. PERRY.
HARVESTERS.104,491, S. A. POCHÉ.
EVAPORATING CANE-JUICE.104,492, J. MORTON POOLE.
MACHINE FOR GRINDING ROLLERS.104,493, JOHN A. PRICE.
STOVE-DOOR AND HEARTH.104,494, CHRISTOPHER T. PROVOST.
CONCENTRATING THE JUICE
OF TOMATOES.104,495, DAVID D. PUGH.
CLOTHES-LINE REEL.104,496, JESSE QUAINANCE.
QUARTZ-CRUSHERS.104,497, JOSIAH M. READ, GRIDIRON FOR
STOVES AND RANGES.CULTIVATOR AND ROLLER COMBINED.
LINAS G. REED.
ERASTUS E. REED.
104,498.104,499, GEO. S. RICE.
POCKET OR "CHARM" LETTER-SCALE.104,500, B. F. SAMPSON.
TURBINE WATER-WHEELS.104,501, SIDNEY SANDERS.
STEAM-RADIATOR.104,502, E. L. SARGENT.
BREECH-LOADING FIRE-ARMS.104,503, WILLIAM SCHNEEBLY.
THRASHING-MACHINES.104,504, DAVID A. SCOTT.
SPRING BED-BOTTOM.JAMES S. SMITH.
TWIN-HOLDER
104,505.

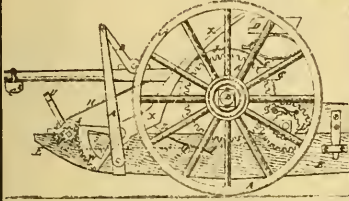
104,506, JOHN E. SMITH. MEAT-CUTTER.



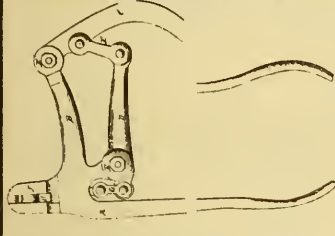
104,507, THOMAS S. SMITH.
METHOD OF MAKING FILES.



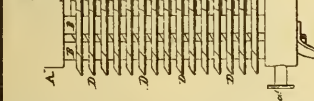
MAJOR JOSEPH W. STIVERS.
104,508,
SEED-STRIPPERS.



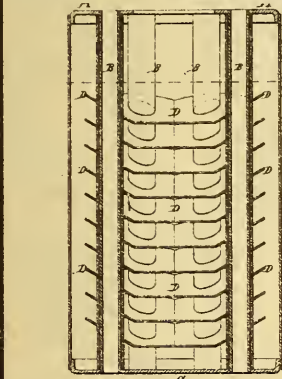
104,509, MATTHIAS THEISEN.
BOLT AND RIVET-TRIMMER.



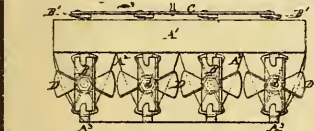
SAML. D. TILLMAN. STEAM HEATER.
104,510.



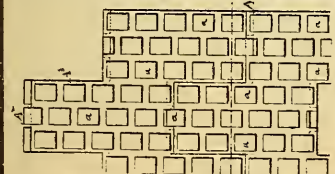
104,511, SAML. D. TILLMAN.
STEAM-GENERATOR.



104,512, SAML. D. TILLMAN.
PROPPELLING VESSELS.



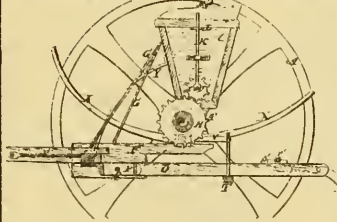
104,513, SAML. D. TILLMAN.
METALLIC PAVEMENTS.



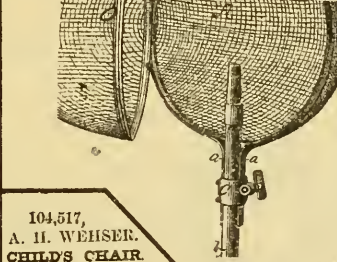
104,514, WM. H. TOWERS.
COMPOSITION ROLLS FOR
CLOTHES-WRINGERS.



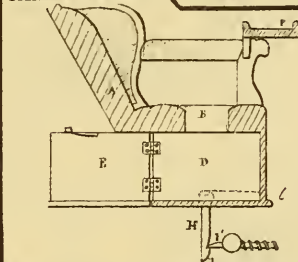
104,515, JAMES T. TROWBRIDGE.
SEEDER AND CULTIVATOR COMBINED.



104,516, HIRAM J. WATTLES.
SHIELDS FOR GAS-BURNERS.



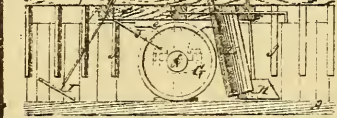
104,517,
A. H. WEHSE.
CHILD'S CHAIR.



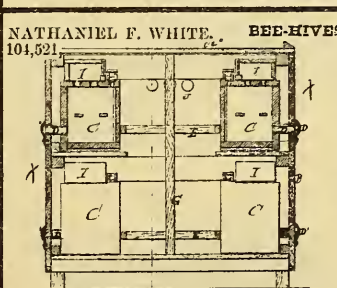
D. B. WESTFALL. POTATO-DIGGERS.
104,518,



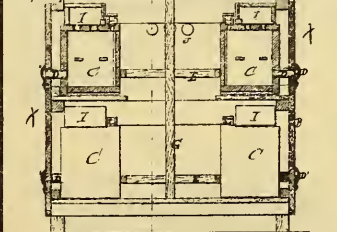
SETH WETMORE. MORTAR-MIXERS.
104,519.



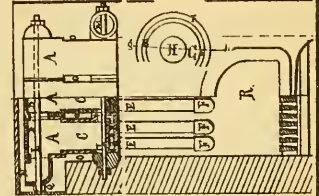
104,520, NELSON S. WHIPPLE.
GLUE OR CEMENT.



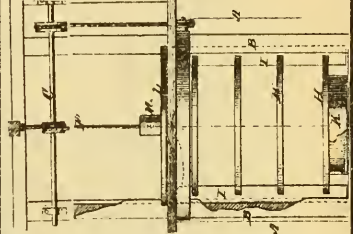
NATHANIEL F. WHITE. BEE-HIVES.
104,521.



104,522, S. LLOYD WIEGAND.
STEAM-GENERATOR.

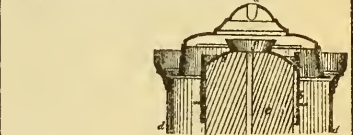


101,523,

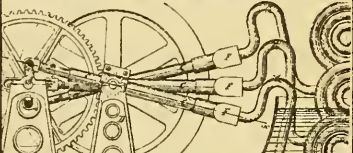


104,524, RICHD. S. WILLIAMS.
PREPARING GOLD FOR DENTISTS' USE.

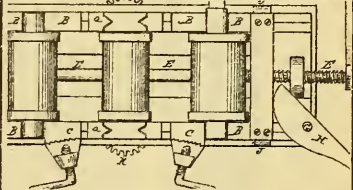
104,525, THOMAS SCOTT WILLIAMS.
FREEMAN AUGUSTUS TABER.
LAMP FOR BURNING CANDLES.



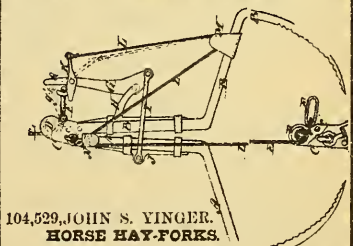
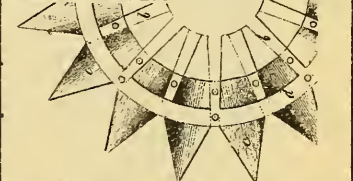
104,526, CHAS. G. WILSON.
MERCURIAL-EXPANSION ENGINE.



104,527, JNO. T. WOODWARD.
APPARATUS FOR BENDING
AND UPSETTING TIRE.

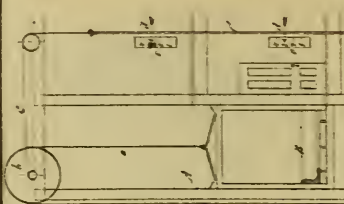
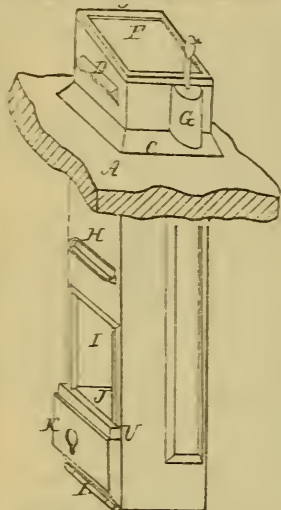


104,528, LEMUEL W. WRIGHT.
PADDLE-WHEELS.



104,529, JOHN S. YINGER.
HORSE HAY-FORKS.

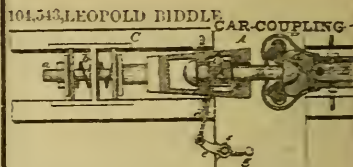
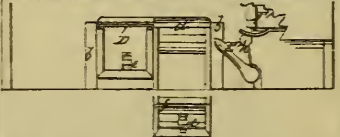
104,520, W. H. YOUNG.
FARE-BOXES FOR OMNIBUSES, &c.



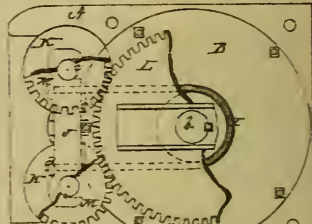
104,536, BENJAMIN BAKER.

TERASHING-MACHINES.

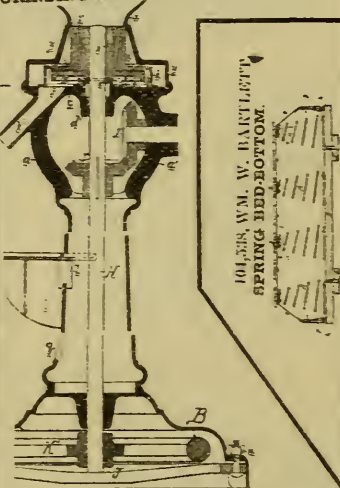
GRAIN-MEASURING ATTACHMENT TO



ABRAHAM BEUCUS.
104,544, TENNES BEUCUS. CANE-MILLS.



104,537, JOHN GULICK BAKER.
GRINDING-MILLS.

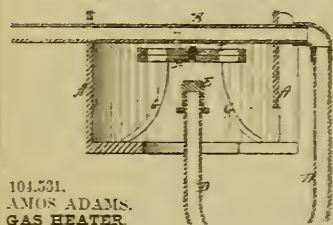


104,538, WM. W. BARTLETT.
SPRING BED-BOTTOM.

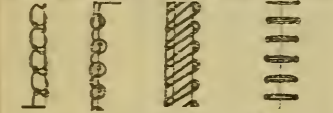
104,545, LEWIS S. BORTER.
HORSE HAY-RAKES.



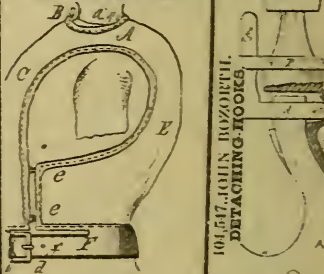
104,531,
AMOS ADAMS.
GAS HEATER.



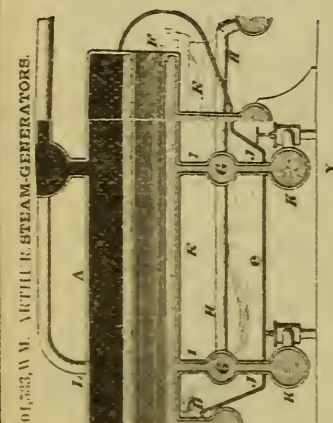
104,532, SATTERLEE ARNOLD. MODE OF
UNITING EDGES OF KNITTED GOODS.



104,546, THOS. B. BOYD.
LIFE-PRESERVERS.

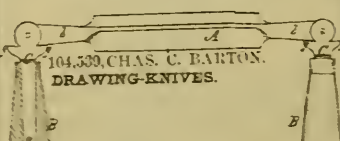


104,547, JOHN BOZORTH.
DETACHING-HOOKS.



104,533, M. ARTHUR R. STEAM-GENERATORS.

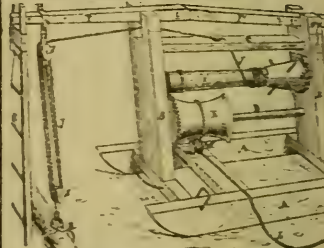
104,539, CHAS. C. BARTON.
DRAWING-KNIVES.



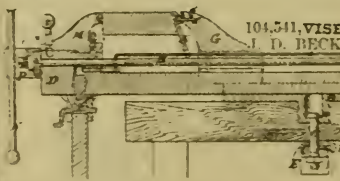
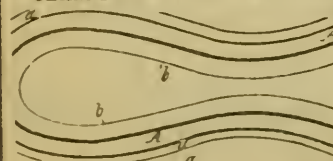
104,540, EMANUEL D. BEALES.
EDGE-IRON FOR SHOEMAKERS.



104,548, JAMES G. BRADY.
LOG-LOADERS AND PILERS.



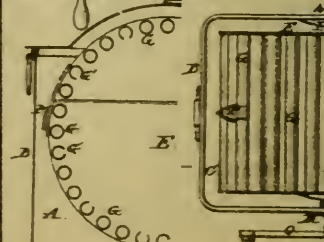
104,534, R. ASHIE.
CHANNEL FOR BOOTS AND SHOES.



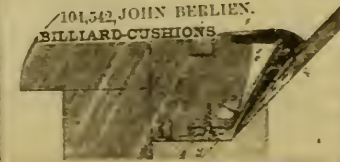
104,541, VISE
D. BECK.

104,549, LEONARD BROCKETT SOAP.

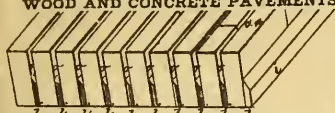
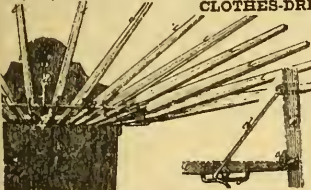
104,550, EDWIN C. BROOKS.
BOILER AND WASHER.



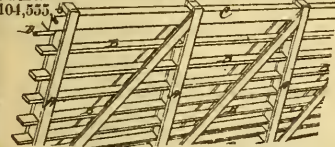
104,535, WM. S. AUCHINCLOSS.
APPARATUS FOR INDICATING THE
POSITION OF ELEVATORS.



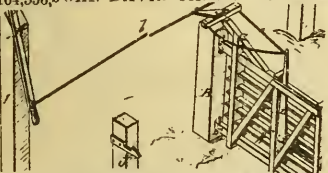
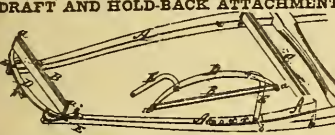
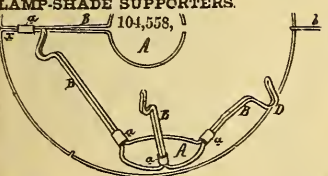
104,542, JOHN BERLIEN.
BILLIARD-CUSHIONS.

104,551, J. WARREN BROWN. COMBINED
WOOD AND CONCRETE PAVEMENTS.104,552, WILLIAM H. BUELL.
CLOTHES-DRIER.104,553, THOMAS CARTER.
METAL ROOFING.104,554, GEO. W. CASLEAR.
PRINTING-INK.

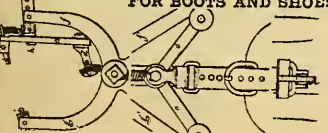
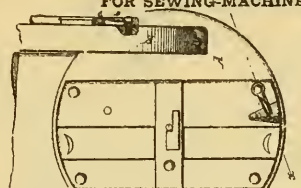
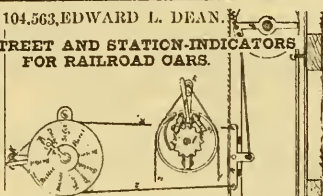
JOHN DAVID CHAMBERS. GATES.



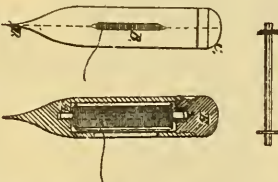
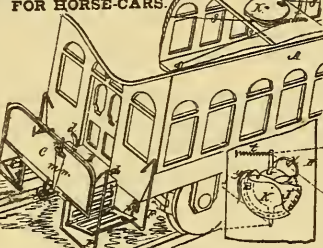
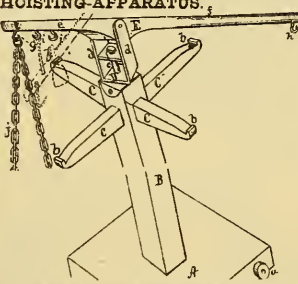
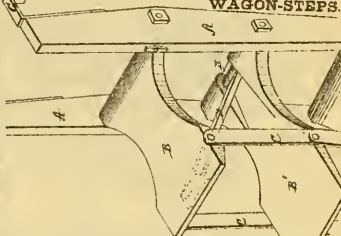
104,556, JOHN DAVID CHAMBERS. GATES.

104,557, WILLIAM H. CHAMBERLIN.
DRAFT AND HOLD-BACK ATTACHMENT.ERNST EUSTACH CONRAD.
LAMP-SHADE SUPPORTERS.

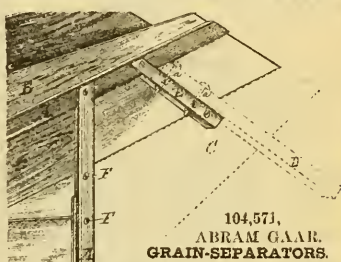
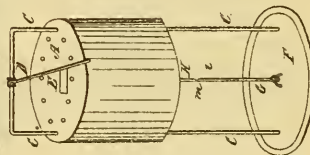
DR. NEWTON C. COOLEY. FRUIT-DRIER.

104,560, LOUIS COTE.
SOLE-EDGE-FINISHING MACHINE
FOR BOOTS AND SHOES.104,561, JOHN CROWE. THREAD-CUTTER
FOR SEWING-MACHINE.104,562, AUSTIN G. DAY. ASPHALTUM
OR CONCRETE PAVEMENTS.

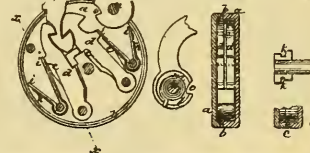
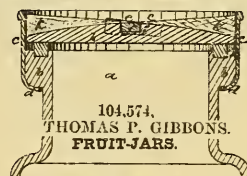
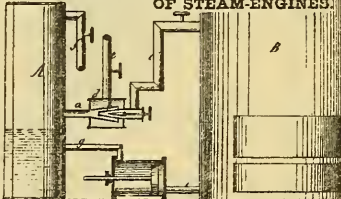
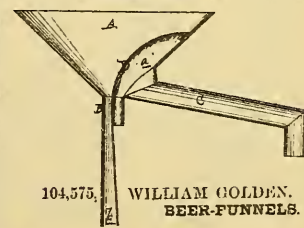
104,564, THOS. DUNCAN. BUCKLES.

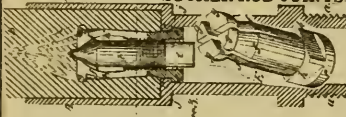
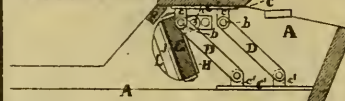
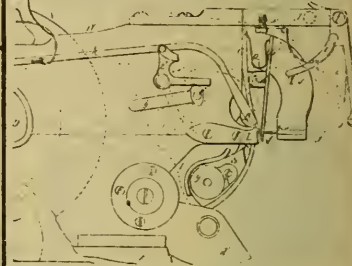
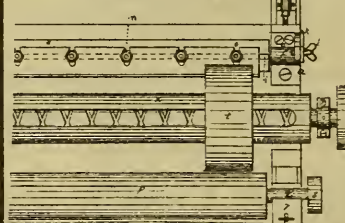
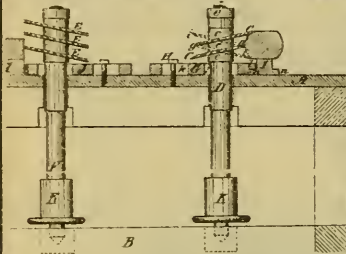
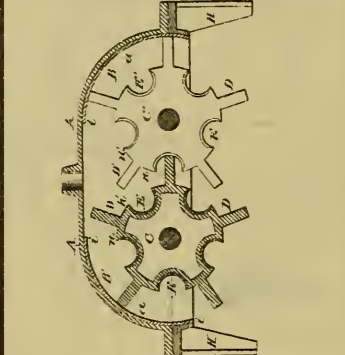
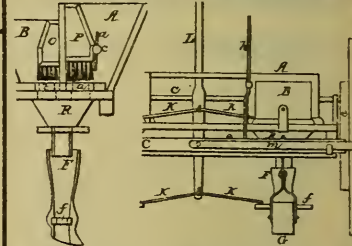
104,565, B. L. FETHEROLF.
TATTING-SHUTTLES.104,566, EUGENE L. FITCH.
PASSENGER-REGISTER
FOR HORSE-CARS.104,567, OLIVER H. FLOOK.
HOISTING-APPARATUS.104,568, JAMES FLOWER.
STOP-VALVE.104,569, MORTON C. FLOYD.
WAGON-STEPS.

104,570, FRANCIS FOX. ANIMAL-TRAP.

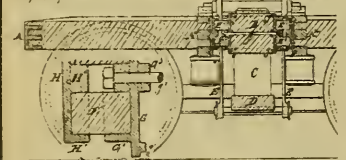
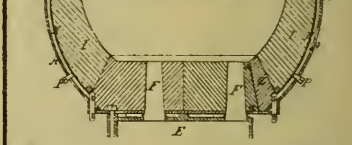
104,571,
ABRAM GAAR.
GRAIN-SEPARATORS.

104,572, E. L. GAYLORD. PADLOCKS.

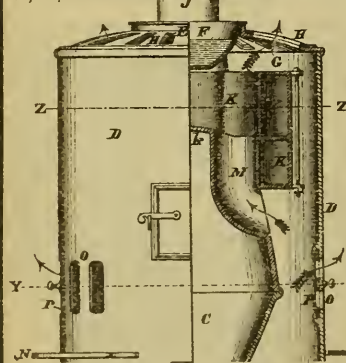
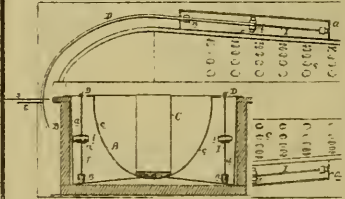
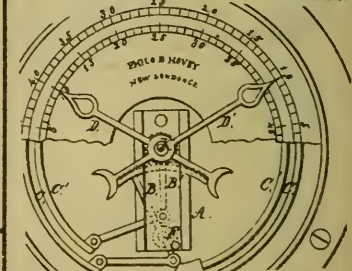
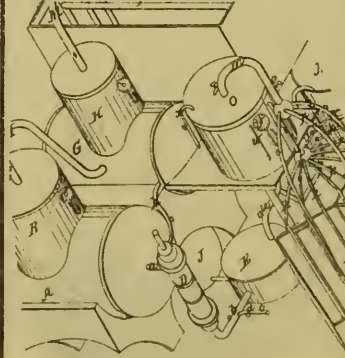
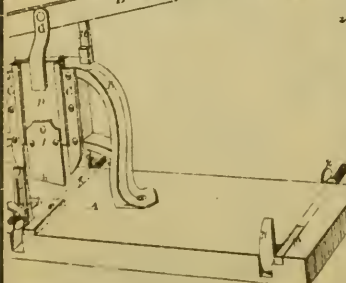
104,573, HENRY GERNER. APPARATUS
FOR UTILIZING THE EXHAUST STEAM
OF STEAM-ENGINES.104,574,
THOMAS P. GIBBONS.
FRUIT-JARS.104,575,
WILLIAM GOLDEN.
BEER-FUNNELS.

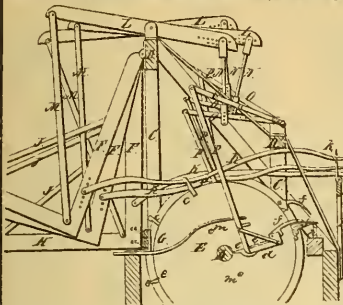
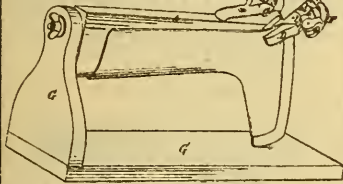
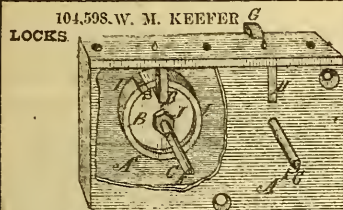
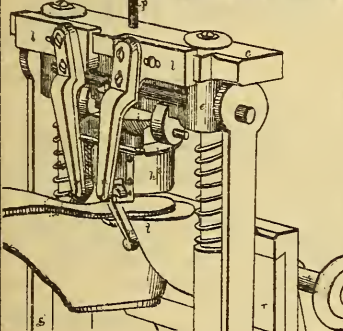
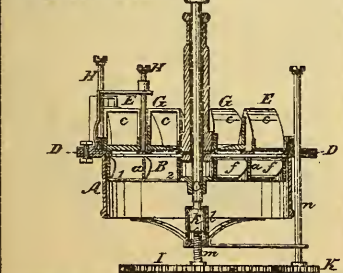
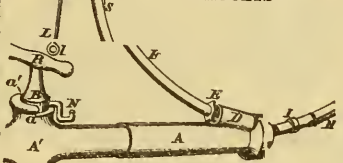
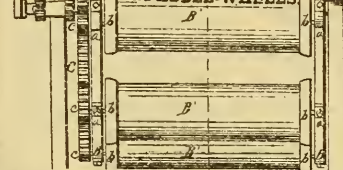
104,576, ADAM GOOD, JR.
SUCKER-ROD JOINTS.104,583, CHRISTIAN HAAS.
BUGGY-SEAT.104,589, GEORGE H. HAZELTON.
BOTTOMS FOR WASH-BOILERS
AND SIMILAR VESSELS.104,590, JANS PETER HENRIKSEN.
SEWING-MACHINE.104,577, EBENEZER A. GOODES
COMBINED RULE, LEVEL,
CLINOMETER, &c.104,584, CHARLES HARDY.
GRINDING LEDGER AND FLY-BLADES.
PLANNER-KNIVES, &c.104,578, HENRY A. GORE. MACHINE FOR
ROUNDING AND DRESSING
IRREGULAR AND REG-ULAR FORMS.104,585, DEXTER D. HARDY.
ED. E. WOOD. BLOWERS.104,591, ANDREW L. HOLCOMB.
CORN-PLANTER AND FERTILIZER.104,579, WM. GREENWELL.
WATER-WHEELS.

104,580, GEO. H. GRIGGS. CAR-TRUCKS.

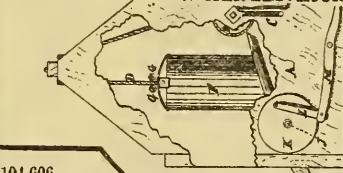
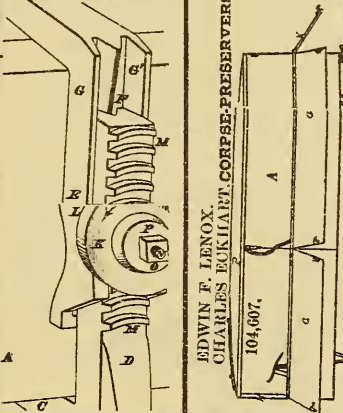
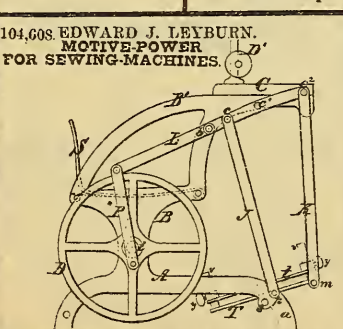
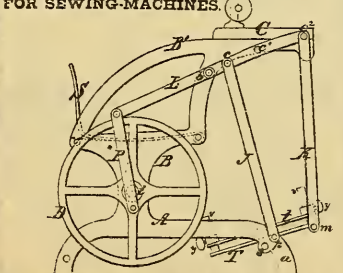
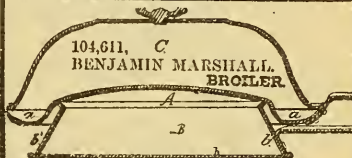
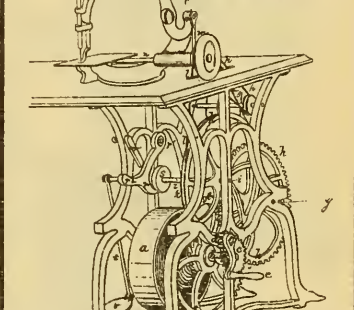
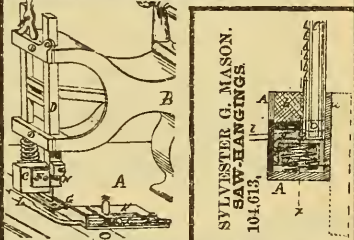
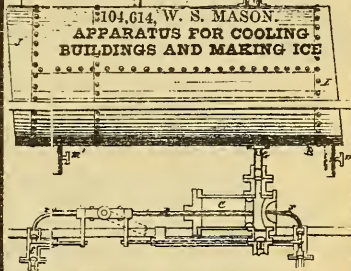
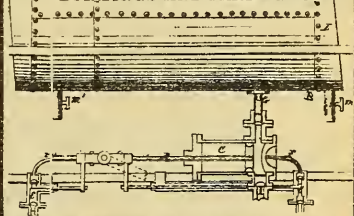
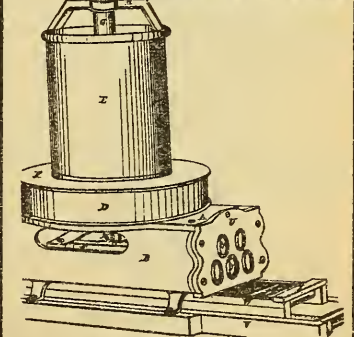
104,586, AARON WORD HARLAN.
DEVICE FOR FORMING
CHANNELS IN RIVERS.104,592, A. L. HOLLEY.
LINING BESSEMER
CONVERTERS.

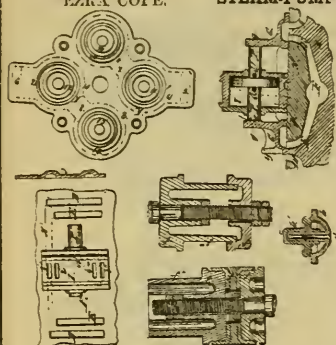
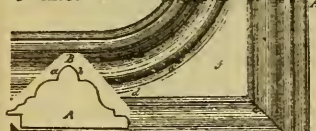
104,581, JOHN GROSSIUS. HEATING-STOVE.

104,587, JOHN B. HATTING
APPARATUS FOR TREATING DISEASES
BY MEANS OF GALVANISM.104,593, PHILIP B. HOVEY.
DUPLEX PRESSURE-GAUGES.104,588, CORNELIUS E. HAYNES.
COOLING AND PRODUCING ICE.104,582, ALBERT F. GUE.
MACHINE FOR CUTTING REVELSON
THE TENONS OF SPOKES104,594, S. HOWARD.
DREDGING-MACHINES.

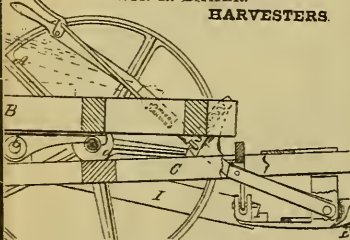
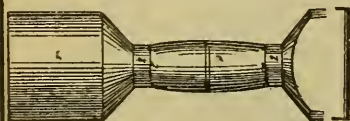
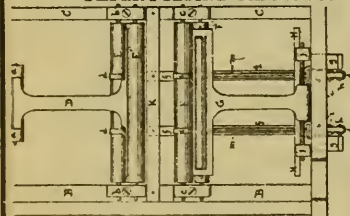
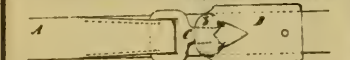
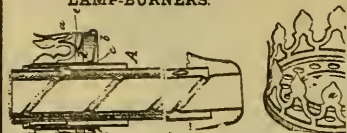
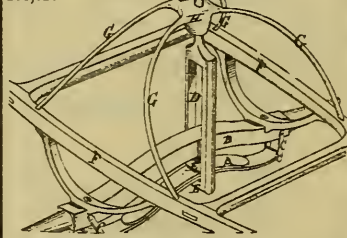
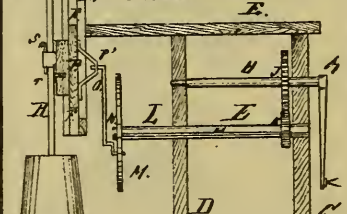
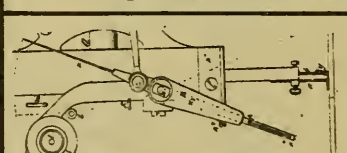
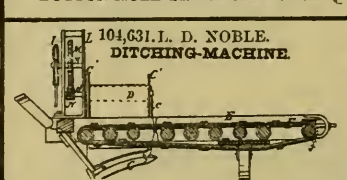
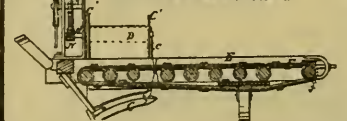
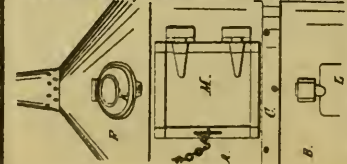
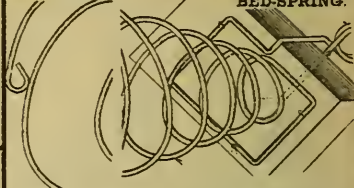
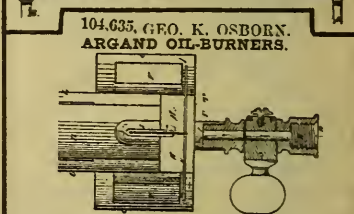
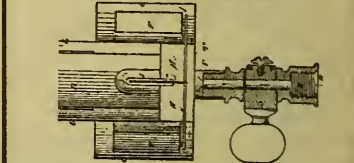
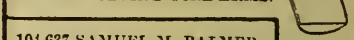
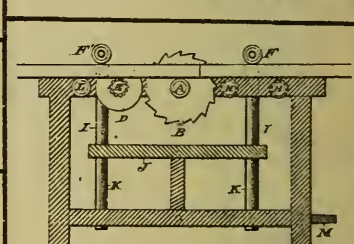
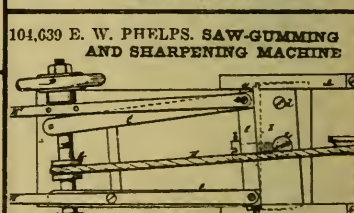
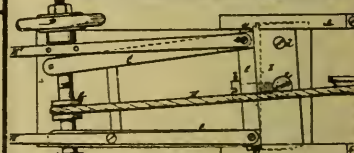
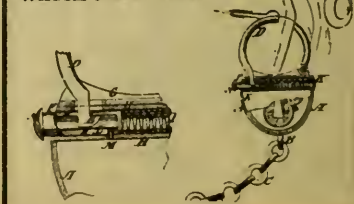
104,595, ABRAM JACKSON.
MOTIVE-POWER APPARATUS104,596, S. W. JAMISON.
BOOT-CRIMPERS.104,597, CARL A. KALCK.
CLOTHES-LINE HOLDER.104,598, W. M. KEEFER.
LOCKS104,599, ARZA B. KEITH. MACHINE FOR
T. K. REED SHAVING HEELS
OF BOOTS AND SHOES.104,600, JAMES C. KELLY.
WATER-WHEELS.104,601, GEORGE KIRTLAND.
HANKS FOR SAILS.104,602, JOHN KNOCH.
FAUCETS104,603, WM. F. KNOWLTON.
PADDLE-WHEELS.

104,604, ROBERT M. LAFFERTY. PUMPS.

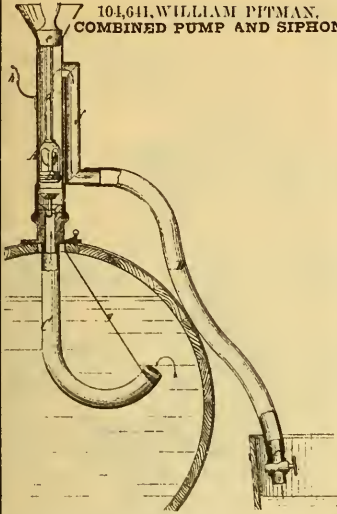
104,605, JAMES F. LATIMER.
WATER-ELEVATOR104,606,
J. J. LEBEAU.
CLAMPSEDWIN F. LENOX.
CHARLES ECKHART. CORPSE-PRESERVERS
104,607.104,608, EDWARD J. LEYBURN.
MOTIVE-POWER
FOR SEWING-MACHINES.104,609, H. C. LUTHER. PICTURE-KNOBS.
C. E. RICHARDS.104,610, GEORGE W. MANSON.
MOTIVE-POWER FOR
SEWING-MACHINES.104,611, C.
BENJAMIN MARSHALL.
BROILER.104,612, CHAS. F. MARTINE.
TUCK-CREASING MECHANISM
FOR SEWING-MACHINESSYLVESTER G. MASON.
SAW-HANGINGS
104,613.104,614, W. S. MASON.
APPARATUS FOR COOLING
BUILDINGS AND MAKING ICE104,615, FREDERICK M. MATTICE.
DRAIN-TILE MACHINES.

104,616, JAMES R. MAXWELL.
EZRA COPE. STEAM-PUMPS.104,617, WM. McCONNELL.
MIRROR AND PICTURE-FRAMES.104,618, L. J. McCORMICK.
WM. R. BAKER.

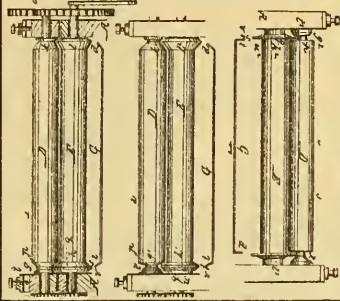
HARVESTERS.

104,619, JOHN McMURTRY.
HARDENING MAGNESIAN LIMESTONE104,620 EDMUND H. MEIGS.
MOLDERS' RAMMERS.104,621, WILLIAM MENDHAM.
PAPER-FOLDING MACHINES.104,622, JNO. MERLETT.
METHOD OF FASTENING LEADS.RUFUS S. MERRILL.
104,623, LAMP.104,624 RUFUS S. MERRILL.
LAMP-BURNERS.104,623, RUFUS S. MERRILL.
LAMP-BURNER.EDWARD MILNER. SPRING SULKEY
104,626.104,627, GEORGE T. MONTAGUE.
CHURN-POWER.104,628, THOMAS MORGAN.
BOLSTER-PLATES.104,629. W. MORRIS. PROCESS AND
COMPOSITION FOR WATER
PROOFING LEATHER, &c.104,630 ISIDOR NASCH.
BUTTON-HOLE SEWING-MACHINE.104,631, L. D. NOBLE.
DITCHING-MACHINE.104,632 HORATIO J. NOYES.
SAMUEL C. TALCOTT
PORTABLE APPARATUS FOR CURING
MEATS, AND FOR OTHER PURPOSES.104,633, AUGUST WM. OBERMANN.
BED-SPRING.104,634, THOMAS O'BRIEN.
RUNNING-GEAR FOR CARRIAGES.104,635, GEO. K. OSBORN.
ARGAND OIL-BURNERS.104,636, WILLIAM I. PAGE.
REVOLVING FIRE-ARMS.104,637, SAMUEL M. PALMER.
GEORGE E. PALMER.
LATH-MACHINE.104,638, EUGENE PAVY.
MANUFACTURE OF USEFUL
AND ORNAMENTAL FABRICS FROM
VEGETABLE AND ANIMAL FIBERS.104,639 E. W. PHELPS. SAW-GUMMING
AND SHARPENING MACHINE104,640, SIMON PINOVER
WATCH-CHAIN LOCK

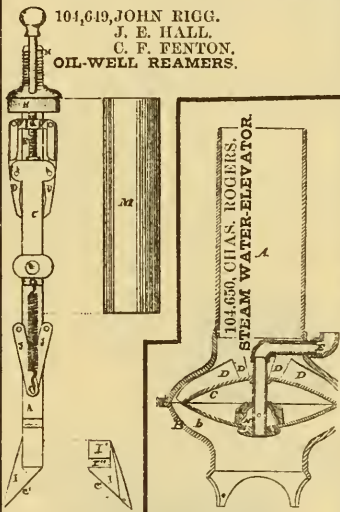
104,641, WILLIAM PITMAN.
COMBINED PUMP AND SIPHON.



104,647, GEORGE A. REYNOLDS.
MACHINES FOR ROLLING
METALLIC ROOFING-PLATES.

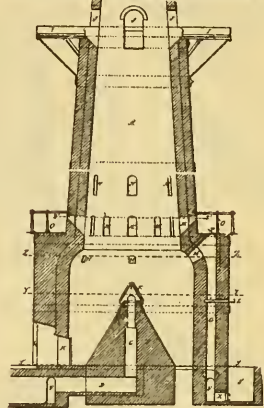


104,648, THOS. C. RICE.
PAINT FOR ROOFS

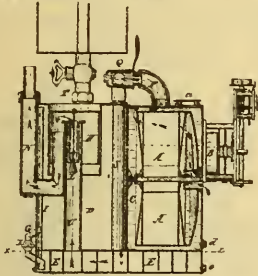


104,649, JOHN RIGG.
J. E. HALL.
C. F. FENTON.
OIL-WELL REAMERS.

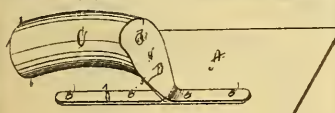
104,653, C. WM. SIEMENS. KILNS FOR
CALCINING ORES, LIMESTONE, &c.



104,642, REUBEN H. PLASS.
APPARATUS FOR CARBURETING AIR.

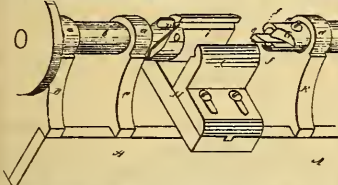


104,643, JAMES PUNDERFORD.
METAL SOLE FOR BOOTS AND SHOES

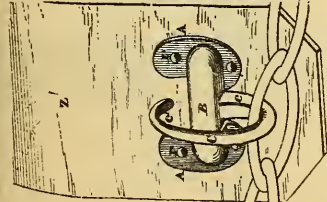


104,644, FRANKLIN REED.
TROWELS

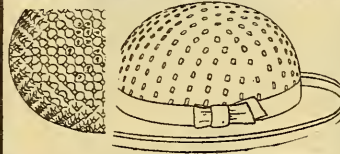
104,645, FRANKLIN REED.
LATHES FOR MAKING AWL-HANDLES.



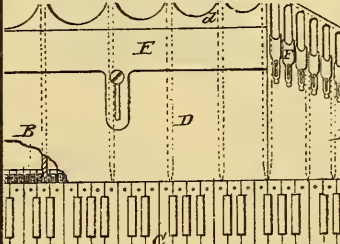
104,646, MICHAEL REILLY
HARNESS-HOOK.



104,652, G. H. SCRIBNER.
THE MANUFACTURE OF FELT HATS.



104,653, G. W. SCRIBNER.
REED ORGAN.



IRVING W. SEARLES.

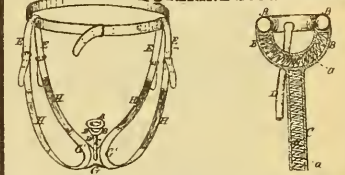
104,654,

CLOTHES-PIN.



104,656,
COLIN CREE ST. CLAIR.
SPECTACLES.

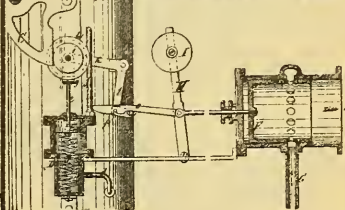
104,657, B. F. STEPHENSON.
UTERINE-SUPPORTERS.



104,658, CAMILLE ST. GERMAIN.
SHOEMAKERS' TOOL.



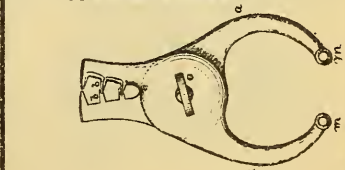
104,659, JOHN STORER.
STOP MOTION
FOR STEAM-ENGINES.



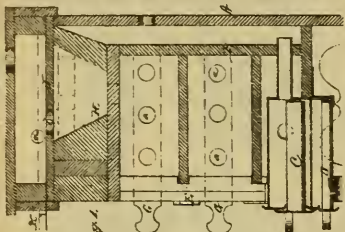
104,660, EDWIN STRAIN.
NEEDLE FOR SEWING-MACHINE.



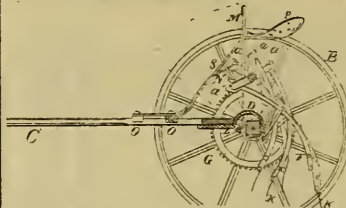
104,661, GEORGE TANNER.
COW-TAIL HOLDER.



JACOBUS ARNOLDUS HENDREEKUS DE GANTVOORT.
104,662. BREAD-MAKING APPARATUS.



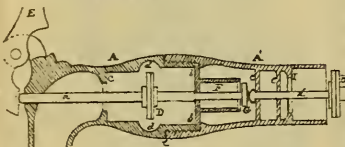
104,669. HORACE WARREN.
HAY-TEDDERS.



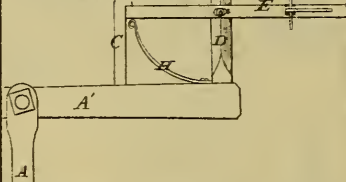
104,674. E. WHITEHEAD.
SKIPPING-HOOPS.



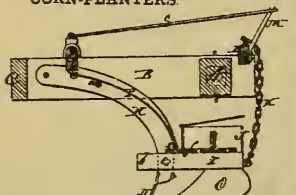
104,663. ROBERT TILLY.
FAUCETS.



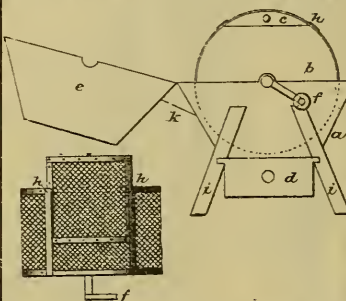
104,670. PAUL WEATHERBEE.
CAR-COUPPLERS.



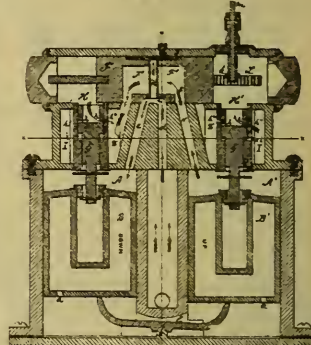
104,664. BENJAMIN F. TOMB.
CORN-PLANTERS.



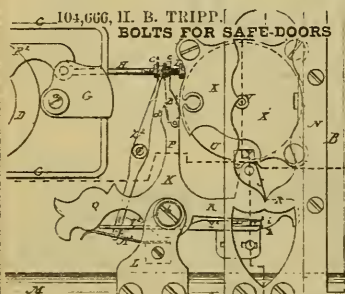
104,671. ALLEN P. WEBB
COAL-SIFTER.



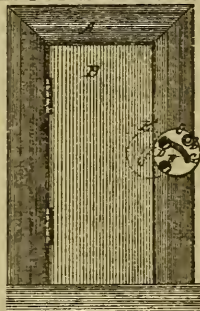
104,675. GEORGE B. WIGGIN
WATER-METERS.



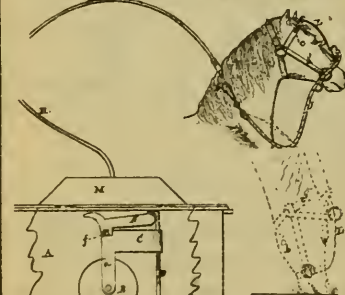
104,665. ARTHUR TOWNE.
COMPOSITION BRONZE-PAINT.



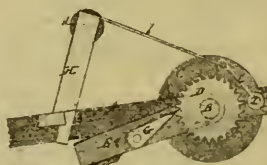
104,672. JONATHAN R. WEBBER.
LATCHES OR FASTENERS FOR DOORS.



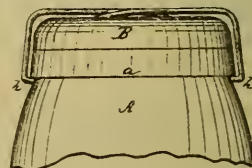
104,667. J. W. UPSON. ANIMAL-TETHER



104,673. HILYARD WELCH.
STREET-CAR STARTERS.

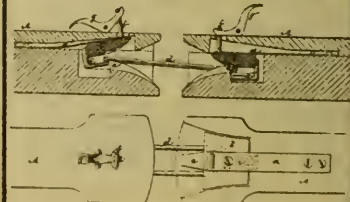


104,676. B. D. WILCOX. FRUIT-JARS.

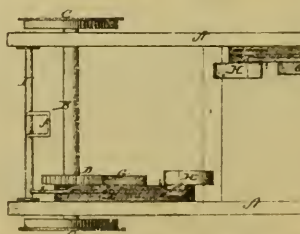
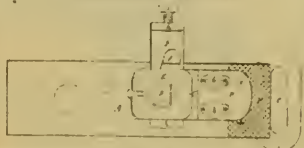


104,677. ELIJAH A. WILDER. MEDICINE
FOR CURE OF DISEASES IN CATTLE.

104,678. E. F. WOLCOTT.
CAR-COUPLING.

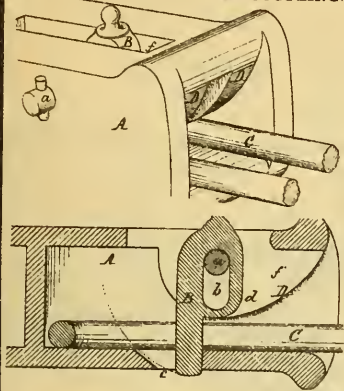


104,668. CHARLES VARNEY.
PEGGING-MACHINES.

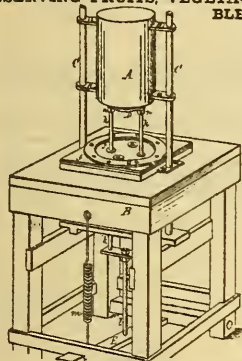


104,679, J. C. WRENSHALL.

CAR-COUPLING.

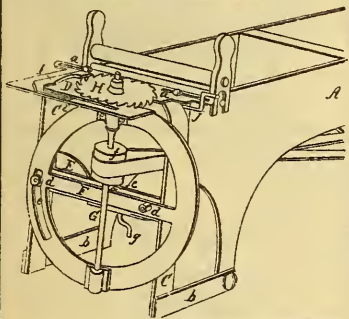
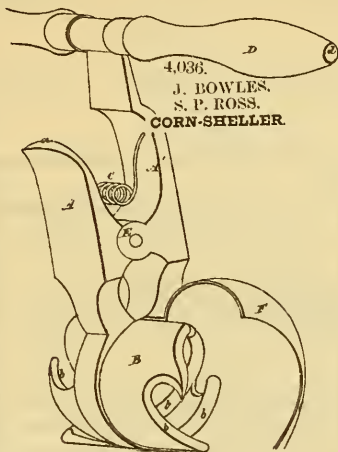
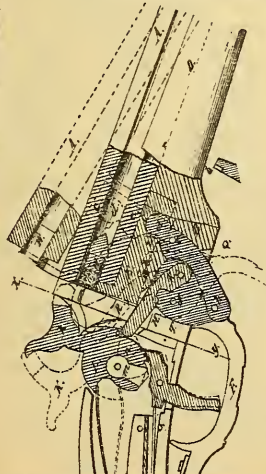


104,680, J. C. WRENSHALL.

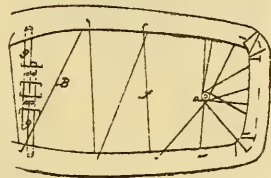
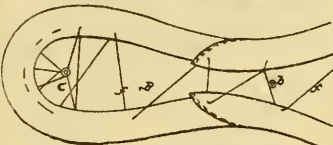
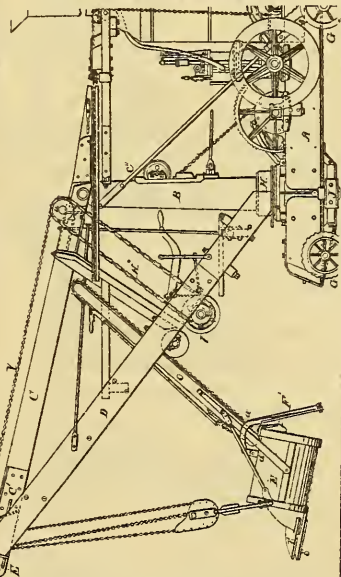
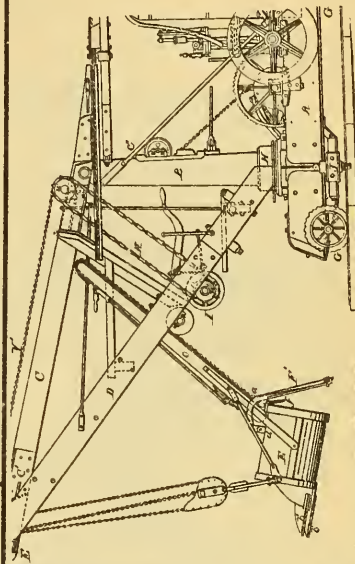
PROCESS AND APPARATUS FOR
PRESERVING FRUITS, VEGETA-
BLES, &c.

104,681, JAMES YORK, JR.

RE-SAWING MACHINES.

104,682, L. V. YOUNG.
BRECH-LOADING FIRE-ARMS.4,036.
J. DOWLES,
S. P. ROSS.
CORN-SHELLER.

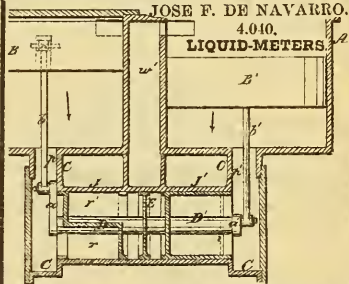
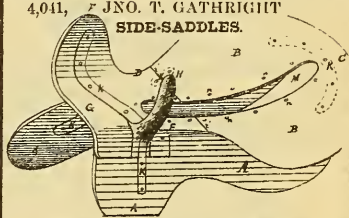
4,037, CHARLES BUFFUM. SHOES.

4,038, OLIVER S. CHAPMAN.
EXCAVATING-MACHINES.4,039, OLIVER S. CHAPMAN.
EXCAVATING-MACHINES.

JOSE F. DE NAVARRO.

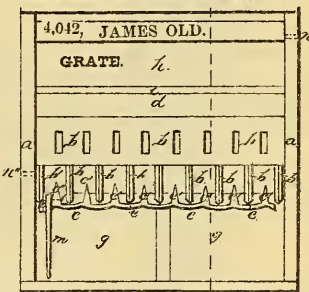
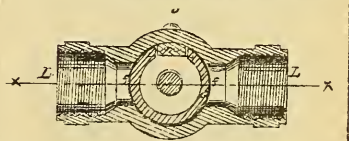
4,040.

LIQUID-METERS.

4,041, JNO. T. GATHRIGHT
SIDE-SADDLES.

4,042, JAMES OLD.

GRATE.

4,043 EDWARD A. ROCK.
JAMES S. GILL.
GEO. SNOWDEN REDFIELD.
GLOBE STEAM-VALVES

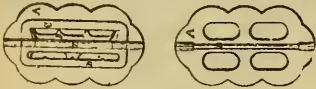
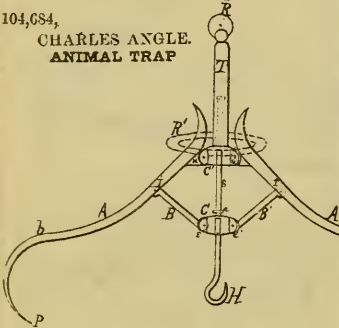
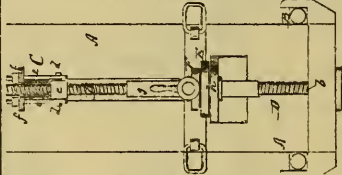
ILLUSTRATIONS OF PATENTS

ISSUED FROM

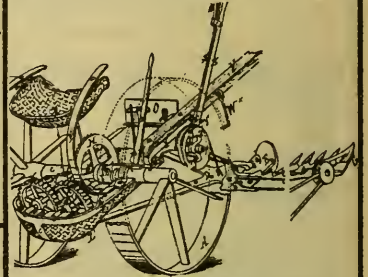
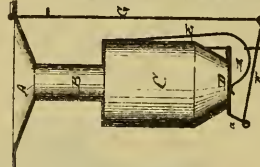
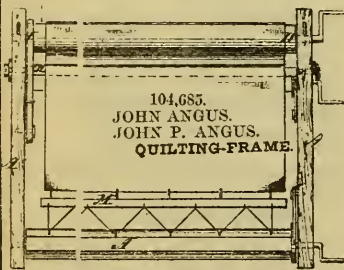
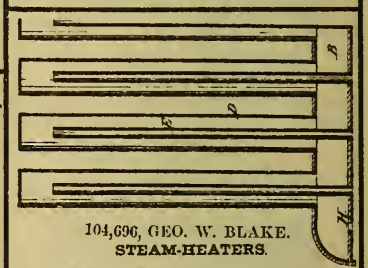
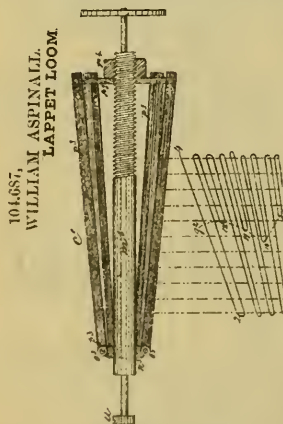
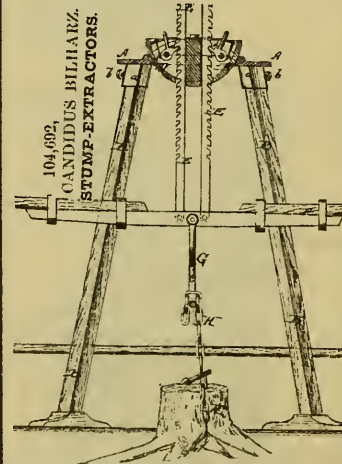
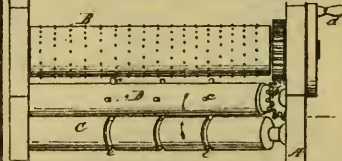
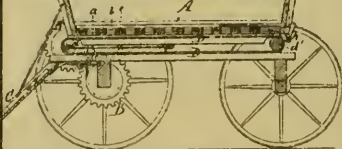
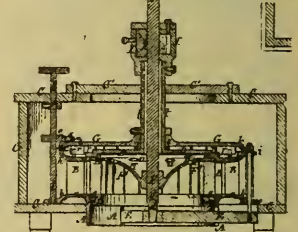
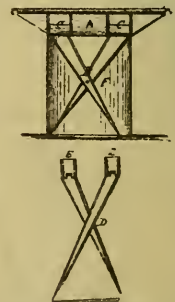
THE UNITED STATES PATENT OFFICE

JUNE 28, 1870.

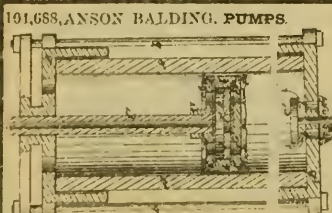
104,683, I. ALEXANDER. BELT-BUCKLES.

104,684,
CHARLES ANGLE.
ANIMAL TRAP104,689, RICHARD BALL.
HAY AND COTTON-PRESSES.

104,690, W. E. BARTON SLEIGH-BELLS

104,691, WILLIAM JAMES BEACH.
RAILROAD-CAR SPITTOON.104,696, GEO. W. BLAKE.
STEAM-HEATERS.104,685,
JOHN ANGUS.
JOHN P. ANGUS.
QUILTING-FRAME.104,686, GEORGE F. ANSELL.
MANUFACTURE OF IRON AND STEEL.104,687,
WILLIAM ASPINALL.
LAPPET LOOM.104,692,
CANDIDUS BILHARZ.
STUMP-EXTRACTORS.104,693, THOMAS J. BURGESS.
CORN-HUSKING MACHINES.104,694, W. C. BURNETT.
LIME-SPREADER.104,695, JAMES BIRCH.
ADDISON CROSBY.
THOMAS BIRCH
HARVESTERS.104,697, OLIVER J. BOLLINGER.
WATER-WHEELS.104,698, EDWIN ROYNTON.
BAG-HOLDERS.

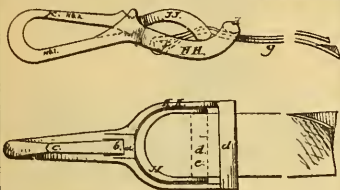
104,699, CANCELED

104,700, WILLIAM S. PREWSTER.
PREPARATION OF WHEAT FOR FOOD.104,701, FRANKLIN W. BROOKS.
STAMP-CANCELS.

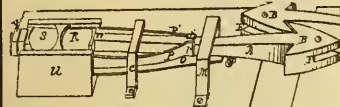
104,688, ANSON BALDING. PUMPS.

104,702, GEORGE A. BROWN.

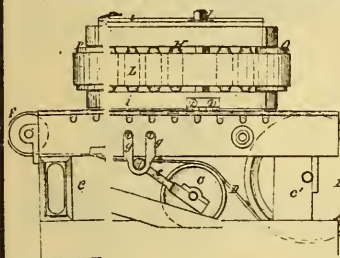
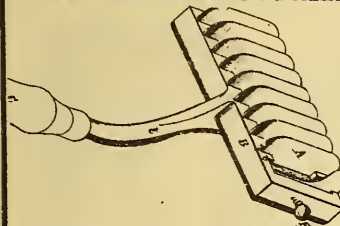
SNAP-HOOK.

104,703, GEO. BUCHANAN, COMBINED
HEARTH, GRATE, AND FENDER.104,704, SAMUEL P. CARLL,
AMOS SHUTE.

CAR-COUPPLINGS.

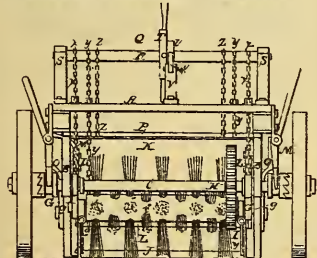


104,705, CYRUS CHAMBERS, JR.

OFF-BEARING
APPARATUS FOR BRICK-MACHINES.104,706, F. W. CODDING, DEVICE FOR
TENDERING OR CHOPPING MEAT.

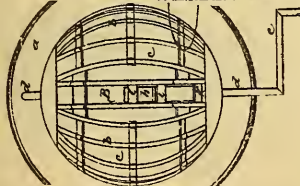
104,707, ALEX. A. CONSALVI.

STREET-SWEEPING MACHINE.



104,708, G. W. COTTINGHAM.

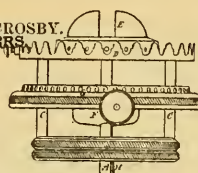
WASHING-MACHINE.



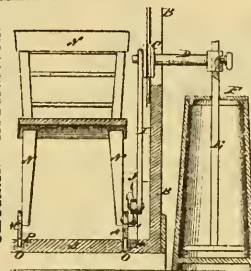
104,709.

ROBERT R. CROSBY.

LAMP-BURNERS.

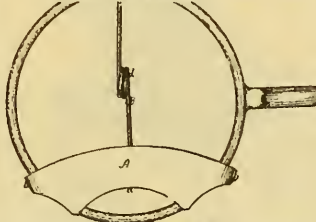
104,710,
JAMES P. CURTIS.

CHURNING APPARATUS.



104,711, GEO. P. CUTLER.

MUSTACHE-SHIELD FOR CUPS.

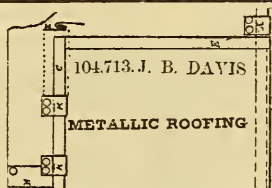


104,712, JOHN DAVIS, KNOB-LATCHES.



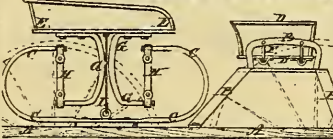
104,713, J. B. DAVIS

METALLIC ROOFING.



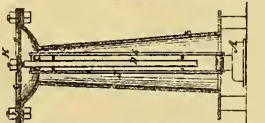
104,714, PORCIUS FESTUS DEAN.

SEATS FOR VEHICLES.

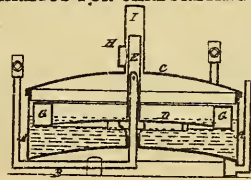


104,715, WILLIAM DILLON.

BALANCE SLIDE-VALVES.

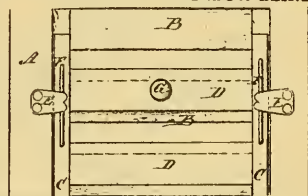
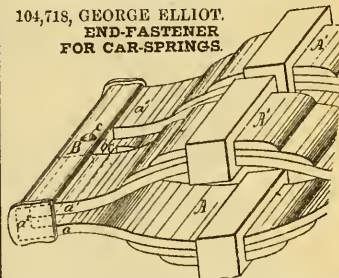


104,716, A. E. DUPAS.

ARTHUR BARBARIN.
APPARATUS FOR CARBURETING AIR.

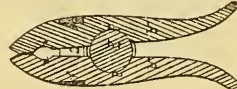
104,717, STEPHAN EICH.

WINDOW-BLINDS.

104,718, GEORGE ELLIOT.
END-FASTENER
FOR CAR-SPRINGS.104,719, ELIHU ENGLAND, COMPOUND FOR
STUFFING AND TANNING HIDES.

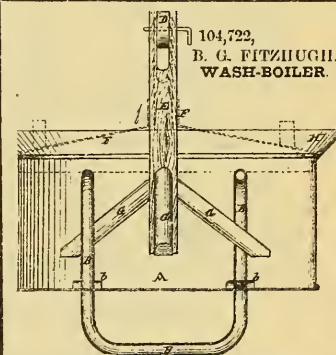
104,720, GEO. K. FARRINGTON.

CLOTHES-PIN.



104,721, GEORGE L. FEARIS.

LINIMENT FOR TREATING NEURALGIA.



104,722,

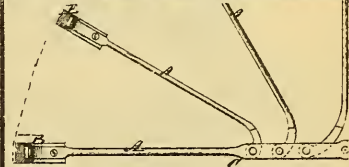
B. G. FITZHUGH.
WASH-BOILER.

104,723, CHARLES S. FORD.

GAS-BURNERS.

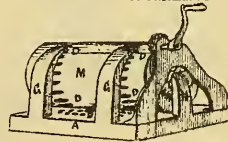
104,724, JOINVILLE F. FOWLER.

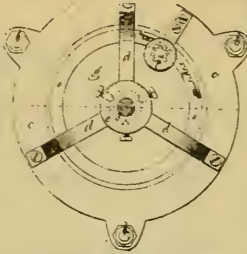
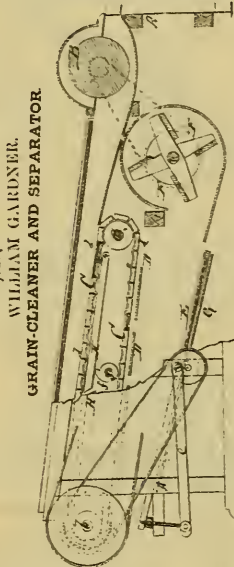
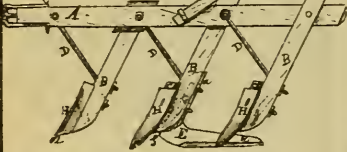
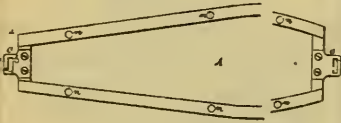
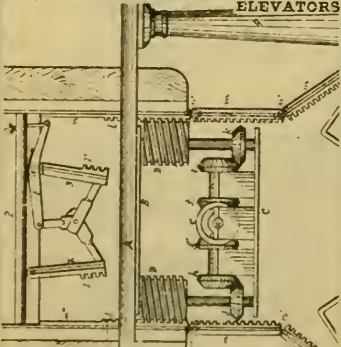
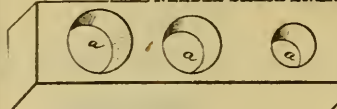
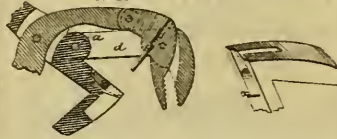
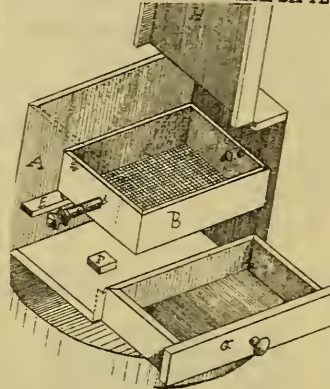
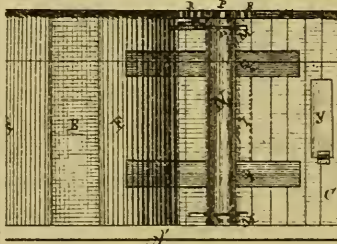
BOWS FOR CARRIAGE-TOPS.



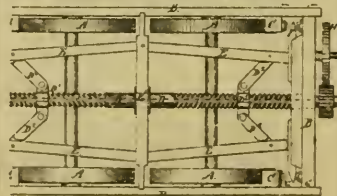
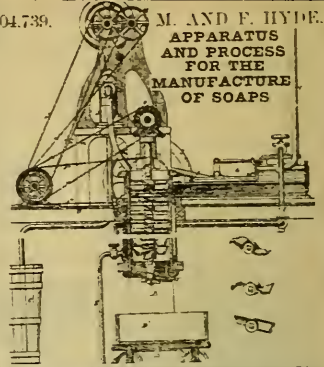
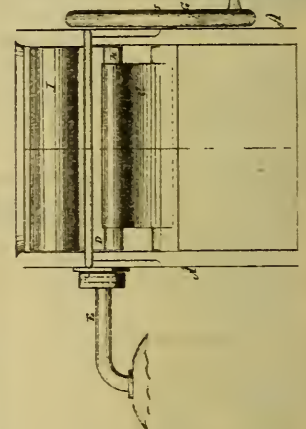
104,725, SAMUEL C. FRINK.

WASHING-MACHINE.

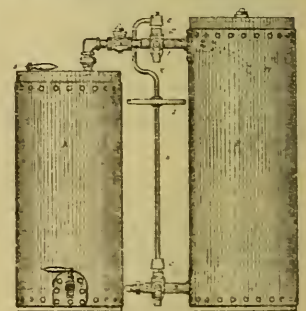
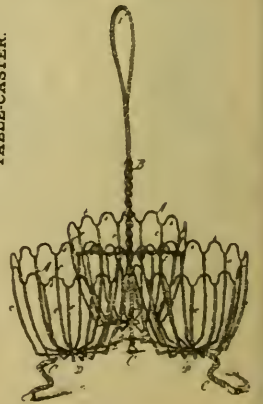


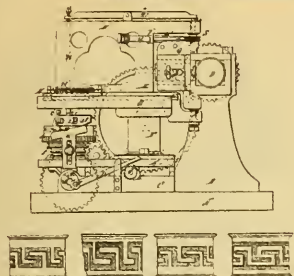
104,726.
OLNEY FULLER.
WATER-WHEELS.104,727, GEORGE C. FURBER.
MEDICAL COMPOUND.104,728.
WILLIAM GARONER.
GRAIN-CLEANER AND SEPARATOR.104,729, MARCELLUS B. GOFF.
CORN-PLOWS.104,730 WILLIAM HAMILTON.
COFFIN-FASTENING.104,731, WILLIAM HAMILTON.
ELEVATORS.104,732, EDGAR K. HAYNES.
NEEDLE-SHARPENER.104,733, FREDERICK HENDERSON.
SHANK-LASTER AND PUNCH.104,734, JOHN HENRY. DEPILATING
AND TANNING HIDES AND SKINS.104,735, LEWIS G. HOFFMAN.
ASH-SIFTER.104,736, GEO. W. HOUGH.
WM. S. HOUGH.
DUMPING-MACHINES.104,737, DANIEL M. SPROGLE.
BURIAL-CASES.

104,738, REUBEN HURD. CAR-BRAKES.

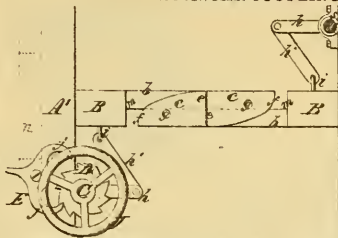
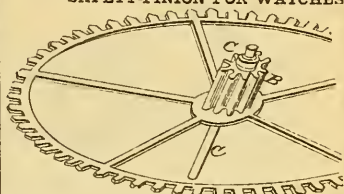
104,739. M. AND F. HYDE.
APPARATUS
AND PROCESS
FOR THE
MANUFACTURE
OF SOAPS.104,740, WILLIAM JONES.
IRONING-MACHINE.

104,741, JAMES KIDDER. TANNING.

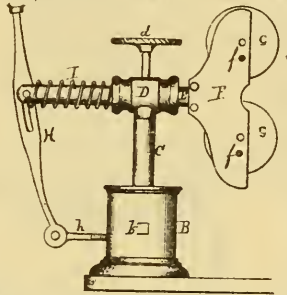
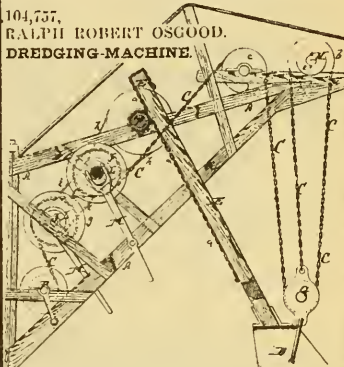
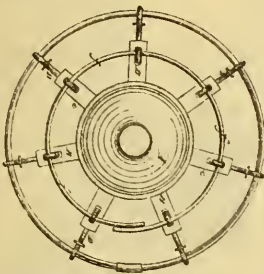
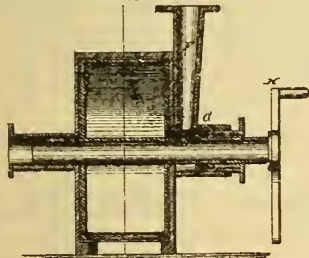
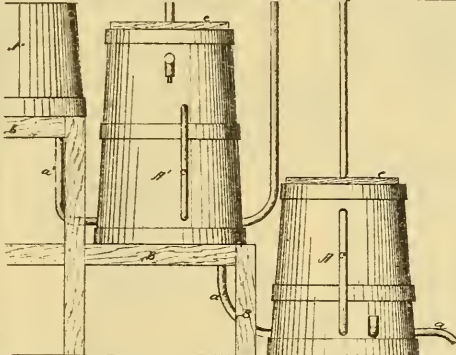
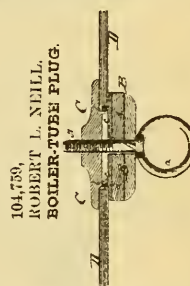
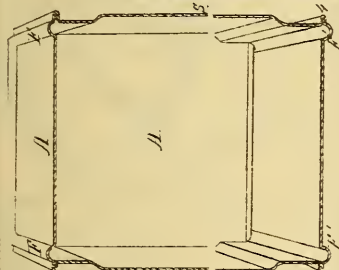
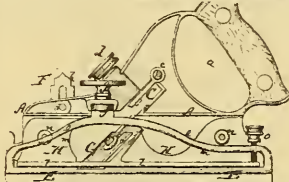
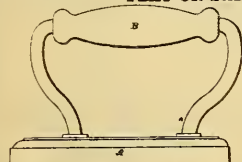
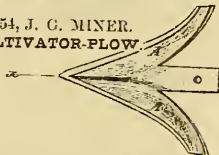
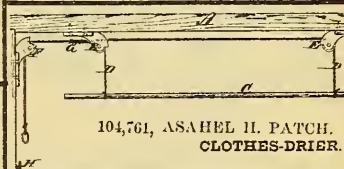
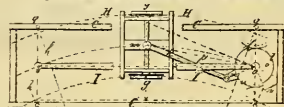
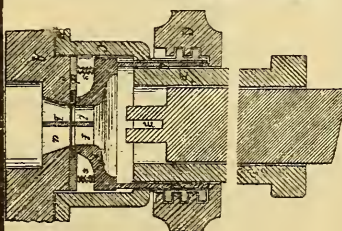
104,742, ALBERT H. LADNER.
THOMAS F. FENLIN.
APPARATUS FOR ELEVATING BEER.104,743.
CYRUS H. LATHAM.
TABLE-CASTER.

104,744, JOHN D. LATHROP.
ENGRAVING-MACHINES.

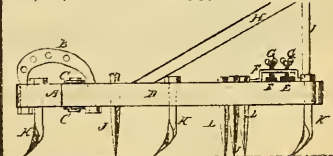
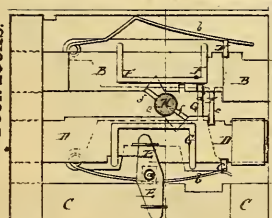
104,750, JOHN A. MASON. CAR-COUPLING.

104,756, CHAS. S. MOSELEY.
SAFETY-PINION FOR WATCHES.

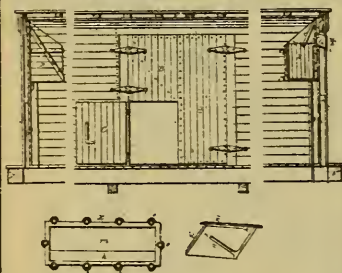
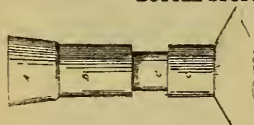
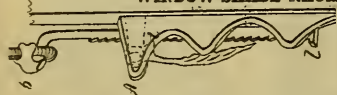
104,751, FRANCIS B. MATTSON. LATHES.

104,757, RALPH ROBERT OSGOOD.
DREDGING-MACHINE.104,745,
LEMCUEL W. LEARY.
LANTERNS.104,746, GEORGE LECKENBY.
ROTARY STEAM-VALVE.104,752, ELLJAH MELTON.
STILLS FOR SPIRITS.104,758, EDWARD MYERS.
MEDICAL COMPOUND.104,747, JOS. LE COMTE.
GEO. H. PERKINS.
SHEET-METAL CANS.104,753, CHARLES G. MILLER.
CARPENTERS' PLANES.104,760, DAVID B. PAGE.
CASES FOR SCISSORS.104,748, LUTHER LINCOLN.
FLAT OR SAD-IRONS.104,754, J. C. MINER.
CULTIVATOR-PLOW.104,761, ASAHEL H. PATCH.
CLOTHES-DRIER.104,762, JOSEPH R. PERRY.
DANIEL W. PERRY.
JAMES PERRY.
STREET-RAILWAY CAR-TRUCK.104,755, CHAS. S. MOSELEY.
PUNCHING-MACHINE.

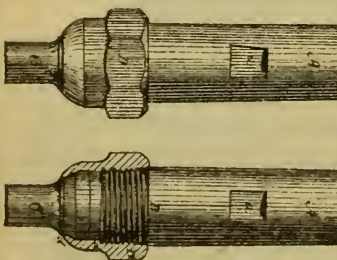
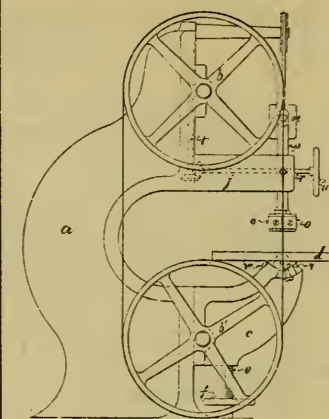
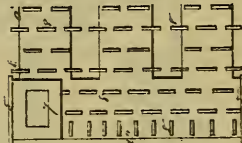
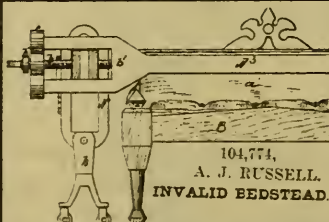
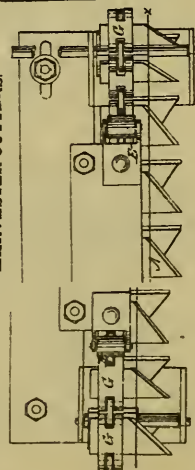
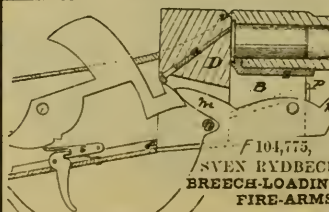
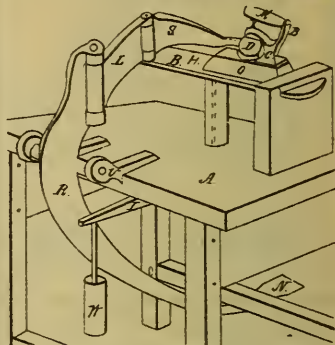
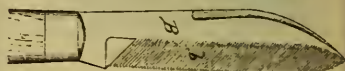
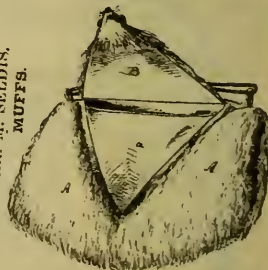
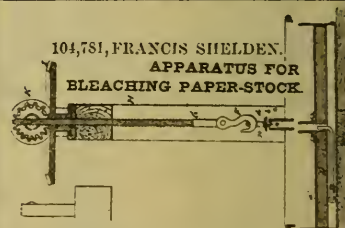
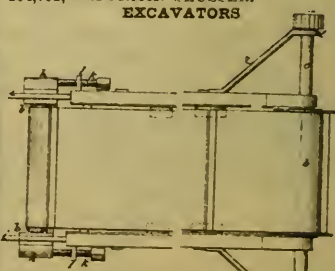
104,763, J. W. PHILLIP. CULTIVATOR.

104,749,
JOSEPH LINDER.
DOOR-LOCKS.

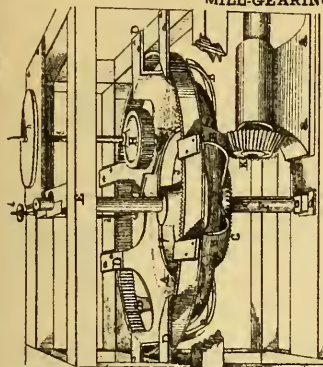
104,764, NATHL. PLYMPTON, TEA-POT.

104,765, JOS. D. POTTS.
B. P. LAMASON.
REFRIGERATOR RAILROAD CAR.104,766, HENRY C. PRATT.
BOTTLE-STOPPERS104,767, JOSHUA PUSEY.
WINDOW-SHADE RACK104,768,
DAVID RAMLER.
AUTOMATIC FAN.

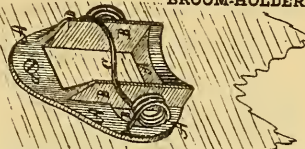
104,769, ISAAC P. RICHARDS, PUNCHES.

104,770, JOHN RICHARDS
WM. H. THORNE.
BAND SAWING-MACHINE104,771, HENRY R. ROBBINS.
STOVE AND FURNITURE-LEG.104,772,
JOHN J. RORPER.
STEAM HEATER.104,773,
FRANCIS E. ROGERS.
HARVESTER-CUTTERS.104,774,
A. J. RUSSELL.
INVALID BEDSTEAD.104,775,
SVEN RYDBECK.
BREECH-LOADING
FIRE-ARMS104,776, A. C. SAWYER.
IRONING-MACHINES.104,777, JOHN K. SAX.
MOLDS FOR CAR-WHEELS.104,778, JOSEPH J. SCHROYER.
WOOD PAVEMENT.104,779, HENRY SEARS.
EDMUND B. SEARS.
KNIFE FOR CUTTING SHEAF-BANDS.104,780,
RAPHAEL M. SELDIS.
MUFFS.104,781, FRANCIS SHILDEN.
APPARATUS FOR
BLEACHING PAPER-STOCK104,782, BENJAMIN SLUSSER.
EXCAVATORS

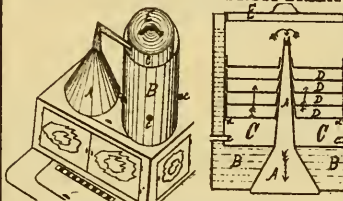
104,783, HARLOW M. SMITH.
MILL-GEARING.



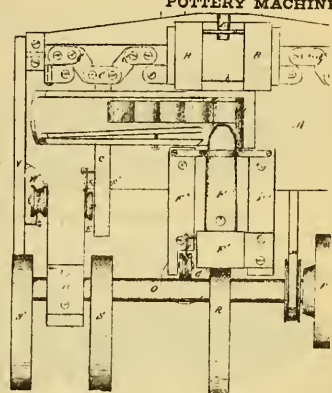
104,787, CHARLES P. SNOW.
BROOM-HOLDER.



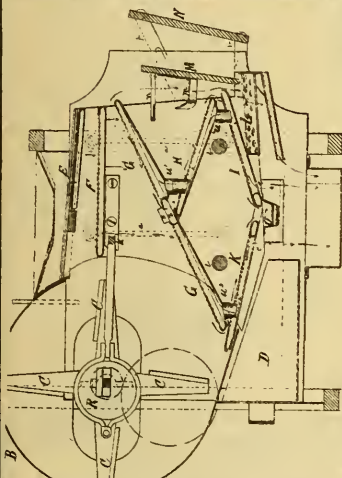
104,788, GEO. M. STERNBERG.
FRUIT-DRIER.



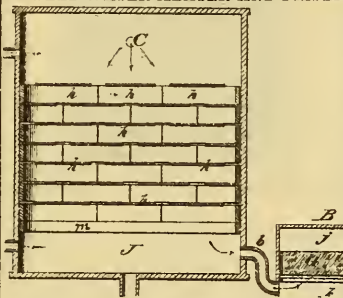
104,793, SAMUEL R. THOMPSON.
POTTERY MACHINE.



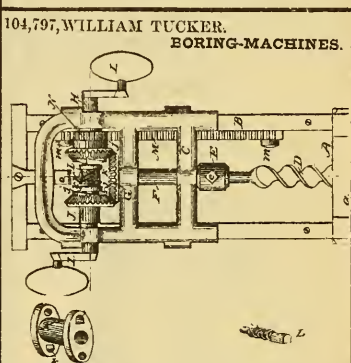
104,781, JAS. I. SMITH, M. D. GRAIN
WM. H. NICODEMUS.
FANNING AND SEPARATING-MACHINE



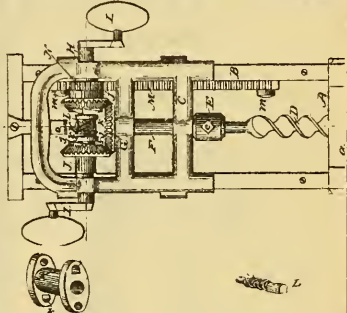
104,789, EDWIN R. STILWELL.
FEED-WATER HEATER AND FILTER



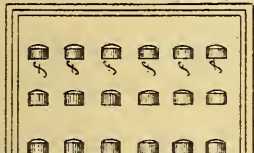
104,796, JOSEPH TREAT.
MANUFACTURE OF SOAP.



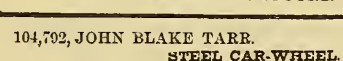
104,797, WILLIAM TUCKER.
BORING-MACHINES.



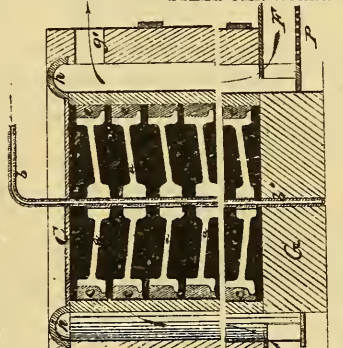
104,785, JOHN HENRY SMITH.
MANUFACTURE OF STEEL-HEADED
HORSESHOE NAILS.



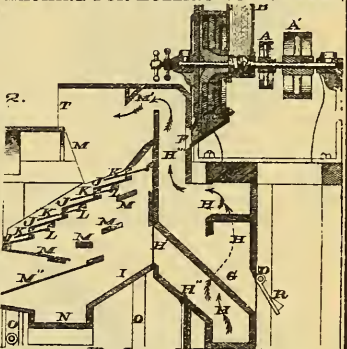
104,791, WILLIAM C. TAIT.
MEDICAL COMPOUND.



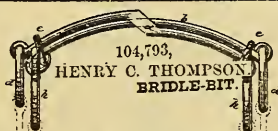
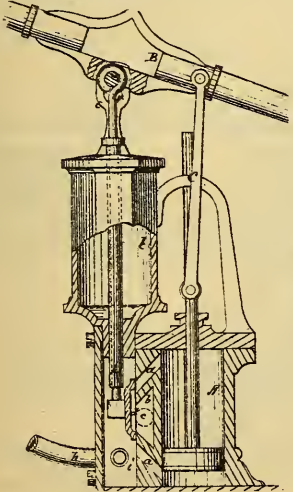
104,792, JOHN BLAKE TARR.
STEEL CAR-WHEEL.



104,799, A. J. VANDEGRIFT
MACHINE FOR HULLING COTTON-SEED.



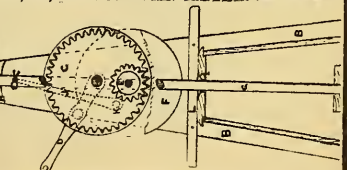
104,786, PETER M. SNELL. PUMPS.
OSCAR SNELL.



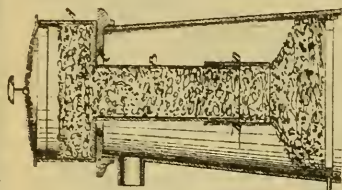
104,794, NATHAN THOMPSON.
BOTTLE-STOPPERS.



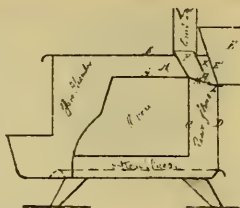
104,800, STROUD VAN METER. CHURNS.



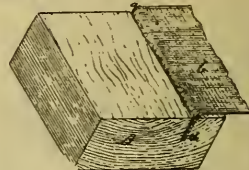
104,801, CHARLES B. WARRING.
HEATING-STOVES.



104,807,
JOSEPH B. WILKINSON.
COOKING-STOVE.



104,815, LUCAS BAKER.
METHOD FOR SECURING THE SEATS
AND BACKS OF CHAIRS, SOFAS, &c.



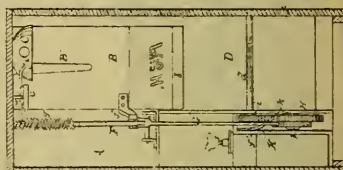
104,802, ALFRED WATSON.
HOT-AIR REGISTER.



104,808, JOHN H. WILLIAMS.
REEDS FOR LOOMS.

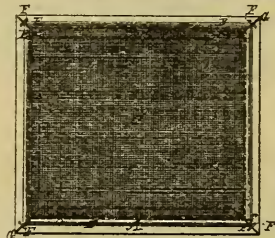


104,816 HENRY BARANGER.
FARE-BOXES FOR PASSENGER-CARS.



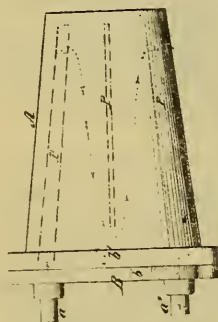
104,803 SUSPENDED

104,809, WALTER W. WOOLEY.
MOSQUITO-SCREEN FRAME.

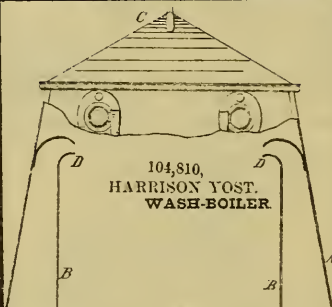


104,804, PETER L. WEIMER.

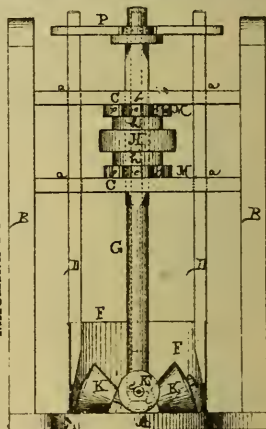
TWEER.



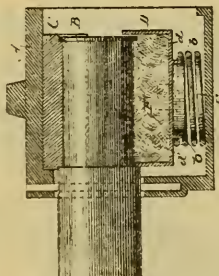
104,810,
HARRISON YOST.
WASH-BOILER.



104,817, A.M. BANSIOR.
MACHINE FOR PACKING FLOUR, &c.



104,805, ISAAC P. WENDELL.
LUBRICATING JOURNAL-BEARINGS

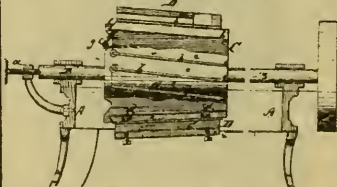


104,811, EMIL YOUNG.
FAUCET.



104,812, DEXTER D. W. ABBOTT.
EMERY-SOAP FOR POLISHING
AND CLEANSING

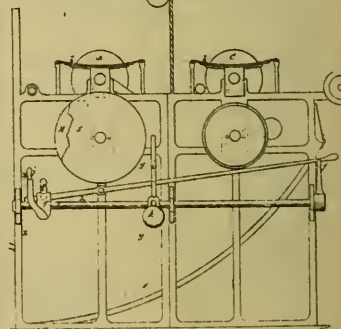
104,813, ROBERT ALDRICH.
FLOCK-GRINDER.



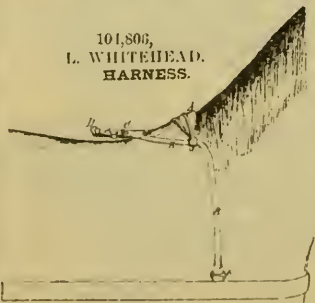
104,814, LAWRENCE ANGSTER.
REFRIGERATORS FOR CONDENSING
VAPORS FROM FERMENTING-
VATS IN BREWERIES, &c



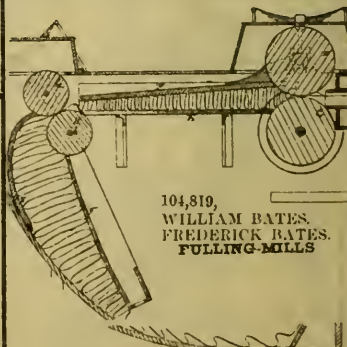
104,818, WILLIAM BATES.
FREDERICK BATES.
MACHINE FOR SCOURING AND
WASHING FABRICS



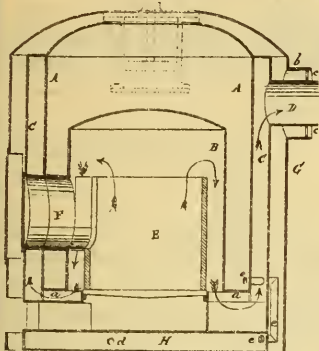
104,806,
L. WHITEHEAD.
HARNES.



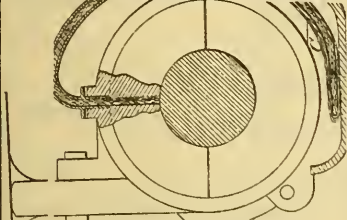
104,819,
WILLIAM BATES.
FREDERICK BATES.
FULLING-MILLS



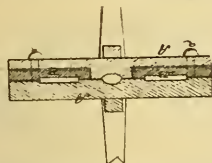
104,820, WILLIAM BAXTER.
STEAM-GENERATORS



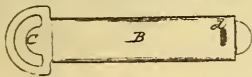
104,821, CHARLES BEAN.
LUBRICATING JOURNALS.



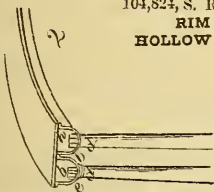
104,822, LUTHER BOARDMAN.
NORMAN S. BOARDMAN.
SPOON-MOLDS.



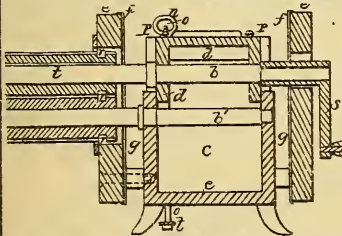
104,823, JAMES BRADY. DOOR-KEYS



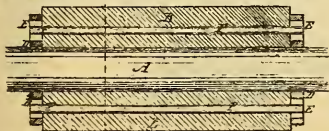
104,824, S. R. BRYANT.
RIM OR FELLY.
HOLLOW METALLIC



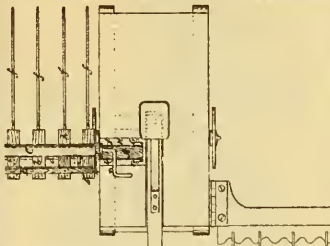
104,825, MARY P. CARPENTER
FLUTING-MACHINES.



104,826, D H CHAMBERLAIN.
RUBBER ROLLER FOR WRINGERS. &c.



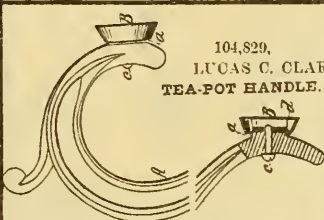
104,827, M. C. CHAMBERLIN.
RAKE ATTACHMENT FOR REAPERS.



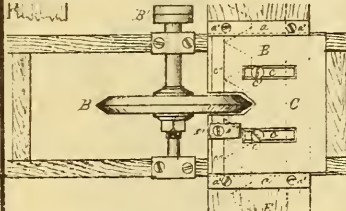
104,828, WILLIAM CHAMBERS. METHOD
OF LASTING BOOTS AND SHOES



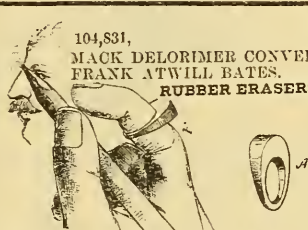
104,829,
LUCAS C. CLARK
TEA-POT HANDLE.



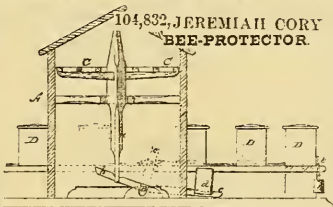
104,830, WM. CLEMONS.
MACHINE FOR GRINDING SAW-TEETH.



104,831,
MACK DELORIMER CONVERSE.
FRANK ATWILL BATES.
RUBBER ERASERS.



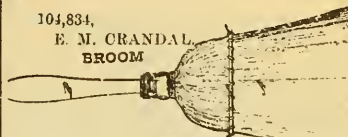
104,832, JEREMIAH CORY
BEE-PROTECTOR.



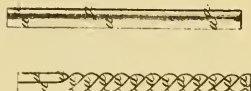
104,833, CHARLES J. COSTELLO.
JOHN COSTELLO.
MUSIC-NOTE BLOCKS.



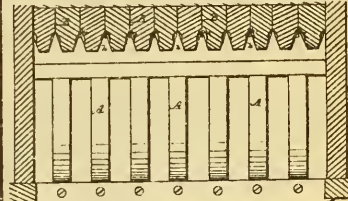
104,834,
E. M. CRANDAL.
BROOM



104,835, PETER CRANS, JR DENTAL PINS.



104,836, J. A. CRAWFORD.
FIRE-PLACE GRATE.



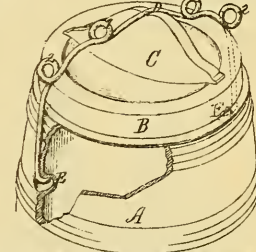
104,837, C. H. CUSHMAN.
HOSE-COUPINGS.



104,838, SIMEON W. DROWNE
KEY-HOLE ESCUTCHEONS.



104,839, TIMOTHY EARLE.
FRUIT-JARS.



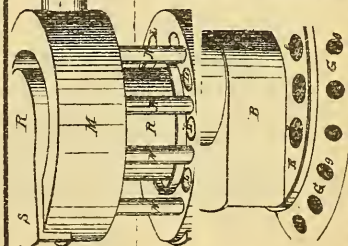
104,840, THEODOR G. EISWALD
BREAST-PINS.



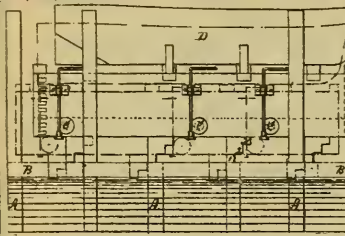
104,841, JAMES EWING
CORK-PRESSER.



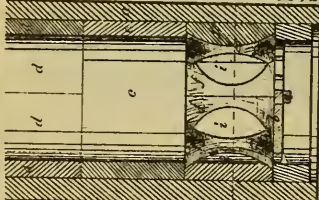
104,842, MICHEL G. FAGAN.
HOT-AIR FURNACE.



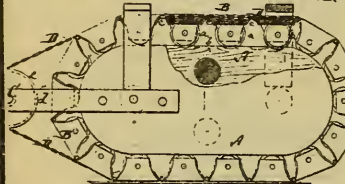
104,843, GILBERT H. FERRIS. DRY-DOCKS.



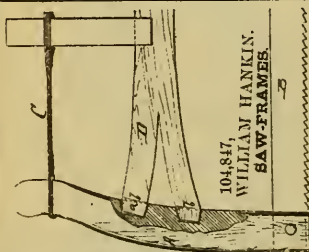
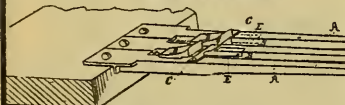
104,844, LYMAN GLEASON. STOVES.



104,845, THOMAS F. HALL. TRACTION-ENGINE.

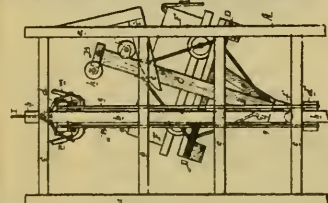


104,846 G. B. HAMLIN. CORN HARVESTER.

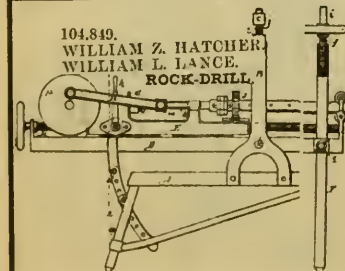


104,847, WILLIAM HANKIN. SAW-FRAMES.

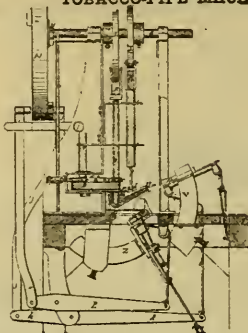
104,848, WILLIAM Z. HATCHER. SAFETY DUMPING-CAGE FOR MINES.



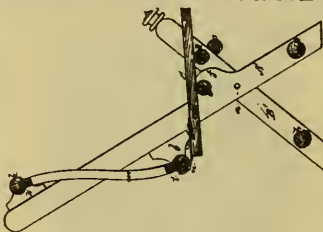
104,849, WILLIAM Z. HATCHER, WILLIAM L. LANCE. ROCK-DRILL.



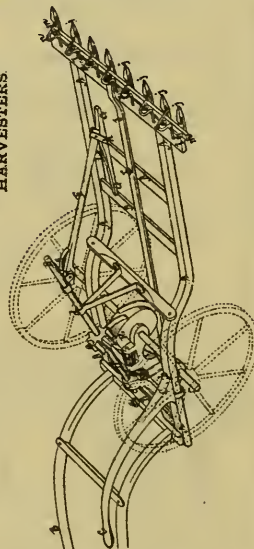
104,850, JOHN H. HOLLELY. TOBACCO-PIPE MACHINE.



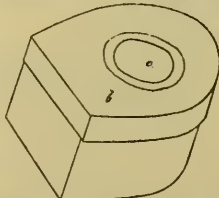
104,851, F. M. HOLMES. FOLDING CHAIR.



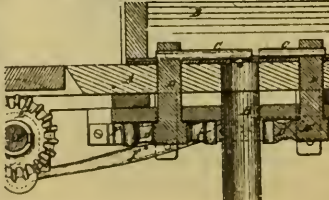
104,852, WM. B. JOHNS, WILLIAM J. READ. HARVESTERS.



104,853, SALOMON KAUFMANN. PAPER-COLLAR BOX.



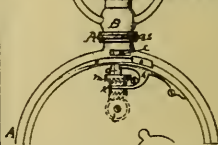
104,854, JOHN F. KELLER. MACHINE FOR DISTRIBUTING FERTILIZERS.



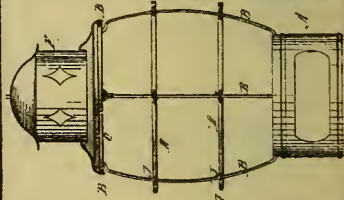
104,855, HENRY K. KENYON. DEEP-WELL PUMPS.



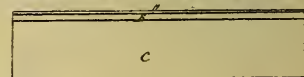
104,856, CHAS. L. KIDDER. FLORENTINE A. JONES. STEM-WINDING AND HAND-SETTING WATCH.



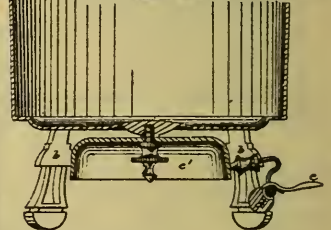
104,857, JOSEPH KINTZ. LANTERN-GUARDS.



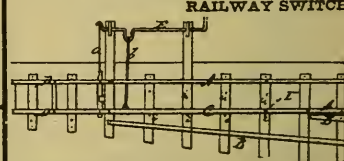
104,858, WM. H. KNIGHT. SECURING VENEERS TO WOOD.



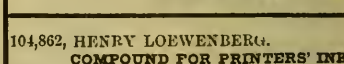
104,859, NATHAN LAWRENCE. CALL-BELL AND SLOP-BOWL.



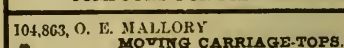
104,860, G. W. LEE, JNO. A. LAFONTAINE, A. L. HARRIS. RAILWAY SWITCH.



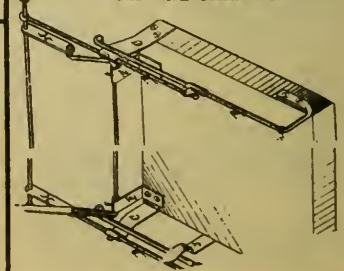
104,861, PHILIPP FRIEDRICH LENHART. WATER-PROOF SWEAT-BANDS FOR HATS AND CAPS.

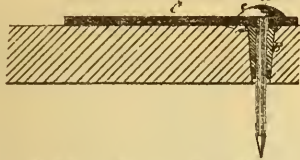
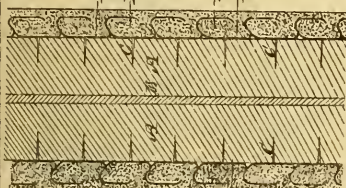
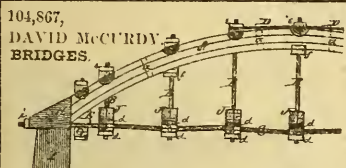
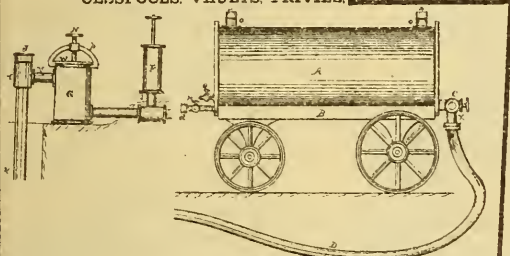
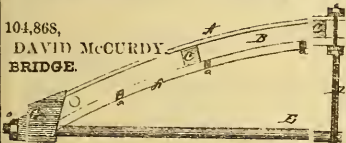
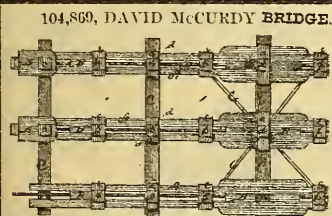


104,862, HENRY LOEWENBERG. COMPOUND FOR PRINTERS' INK.

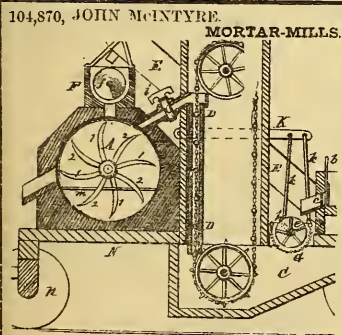
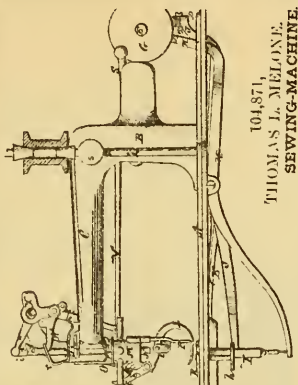
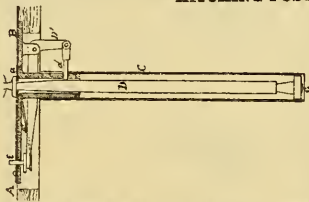
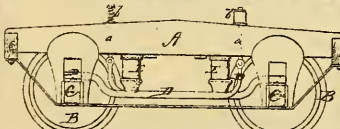


104,863, O. E. MALLORY. MOVING CARRIAGE-TOPS.

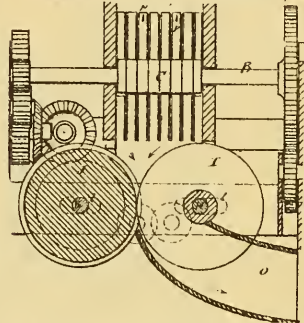
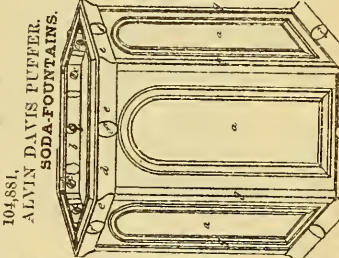
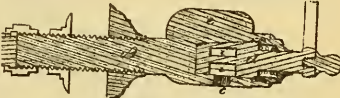
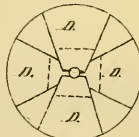
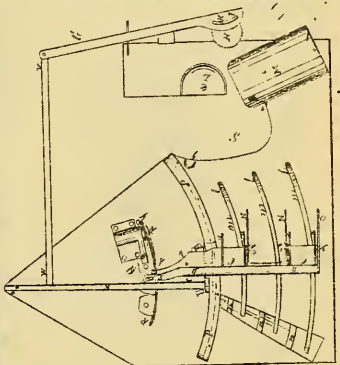
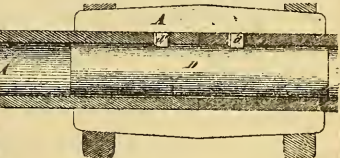


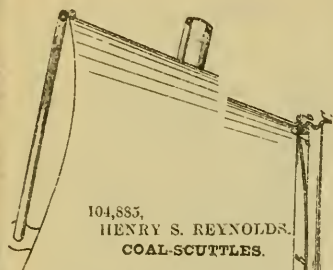
104,864, J. J. MÄRKI.
CARPET-FASTENING.104,865, EDWIN MAY.
CONSTRUCTION OF PRISON WALLS.104,866, WM. C. MCCARTHY.
APPARATUS FOR CLEANING
CESSPOOLS, VAULTS, PRIVIES.104,867,
DAVID McCURDY
BRIDGES.104,868,
DAVID McCURDY
BRIDGE.

104,869, DAVID McCURDY BRIDGE.

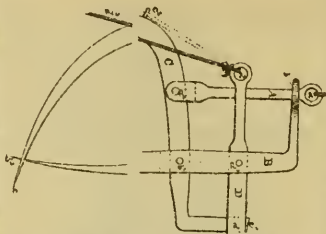
104,870, JOHN McINTYRE.
MORTAR-MILLS.104,871,
THOMAS L. MELONE.
SEWING-MACHINE.104,872,
EDGAR MURRAY.
WIRE-CUTTER.104,873, CHARLES MOTIER NES.
MANUFACTURE OF STEEL104,874, FRANCIS M. OSBORN.
TONGUE-HOLDER FOR DENTISTS.104,875, JOSIAH OOTHOUT.
HITCHING-POST.104,876, ADDISON OVERBACH.
EQUALIZING-BARS FOR
RAILWAY CAR-TRUCKS.104,877, THOMAS B. PENICKS.
JOSEPH HEFFLY.

UMBRELLAS.

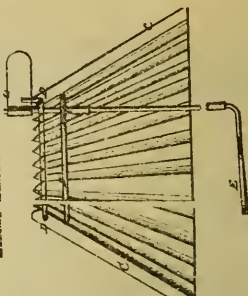
104,878, ADOLPH PEAFF.
MACHINE FOR CUTTING FAT, &c.104,879, LUKE A. PLUMB. COMPOSITION
AMALGAM FOR FILLING TEETH.104,880, ALVIN DAVIS PUFFER.
FAUCETS.104,881,
ALVIN DAVIS PUFFER.
SODA-FOUNTAINS.104,882, DAVID A. REID.
SORGHUM-STRIPPER104,883, HIRAM A. REID.
HARVESTER ATTACHMENT
FOR RAKING AND BINDING GRAIN104,884, PETER W. REINSHAGEN.
SHAFT-COUPPLING



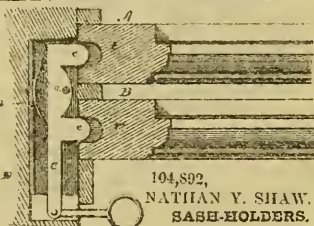
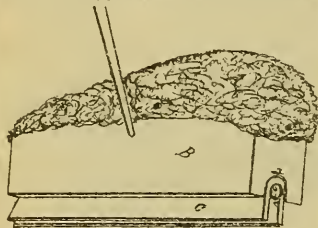
104,885,
HENRY S. REYNOLDS.
COAL-SCUTTLES.



104,898,
CORNELIUS ST. JOHN.
LAMP-SHADE HOLDERS.

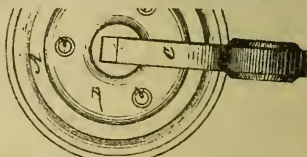


104,886, WILLIAM G. RHODEHAMEL.
SCRUBBER AND CLEANER.

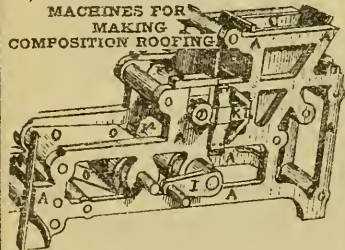


104,892,
NATHAN Y. SHAW.
SASH-HOLDERS.

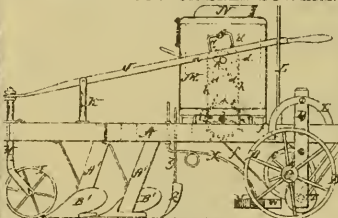
104,899, PHOS. M. TAYLOR.
LIFTING-HANDLES FOR COFFINS, &c



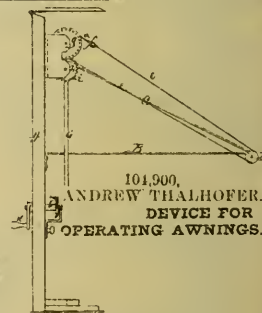
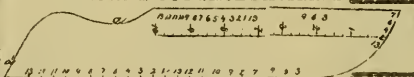
104,887, ISRAEL L. G. RICE.
MACHINES FOR
MAKING
COMPOSITION ROOFINGS.



104,893, JOSEPH SHEARER.
COTTON-SEED SOWERS.

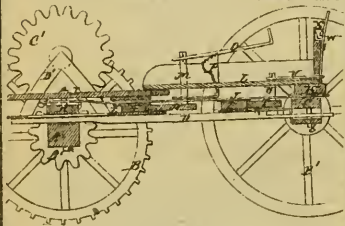


104,894, WILLIAM SHEILL, SCALE FOR
LAYING OUT SHOE-PATTERNS.

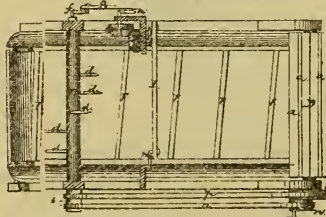


104,900,
ANDREW THALHOFFER.
DEVICE FOR
OPERATING AWNINGS.

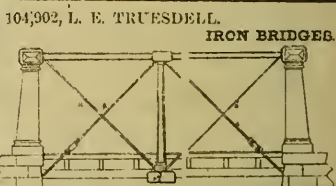
104,888, IRA A. SABIN.
STEAM ROAD-VEHICLES.



104,895, D. F. SLANE.
FEED-ATTACHMENT FOR
THRASHING-MACHINES.

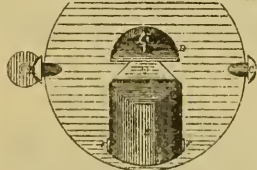


104,901,
CHAUNCEY THOMAS.
AXLE-NUTS AND AXLES

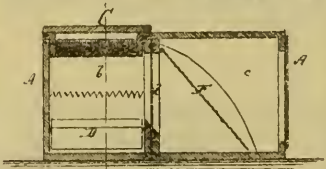


104,902, L. E. TRUEDELL.
IRON BRIDGES.

104,889, DAVID SANDERS.
STOVE-PIPE DAMPER.

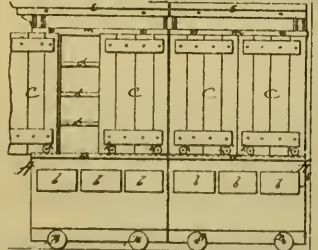


104,896, ELONZO SPRAGUE.
GEORGE C. BELT.
ANIMAL TRAP.



104,903,
E. TURNER.
TASSEL-HOOKS.

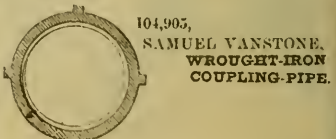
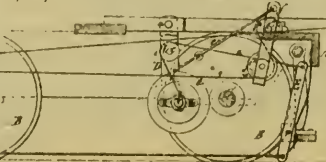
104,890, WILLIAM EDMOND SCOTT.
SHELVING FOR STORES.



104,904, SAMUEL VANSTONE.
METHOD OF MANUFACTURING
AXLE-NUTS.

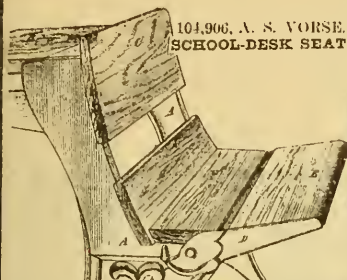
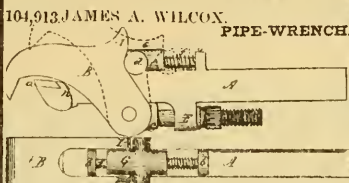
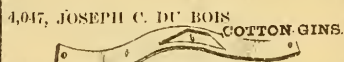
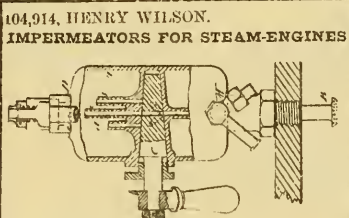
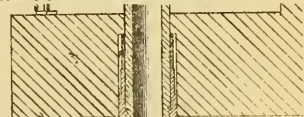
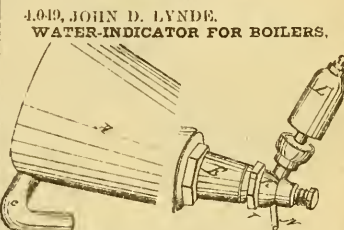
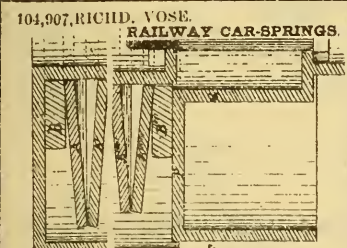
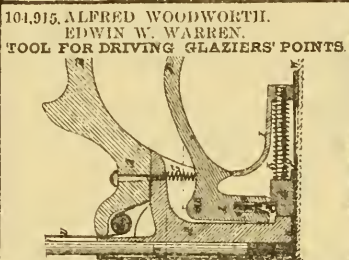
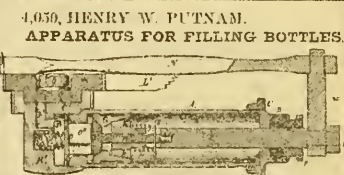
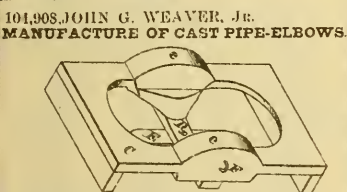
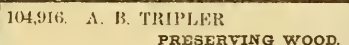
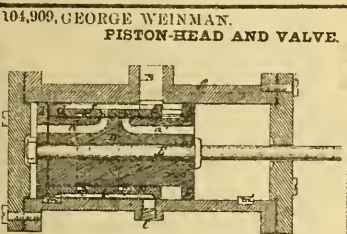
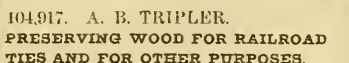
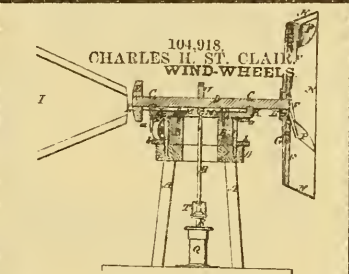
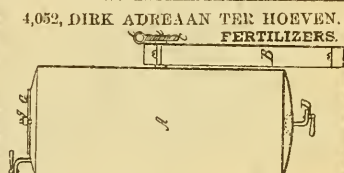
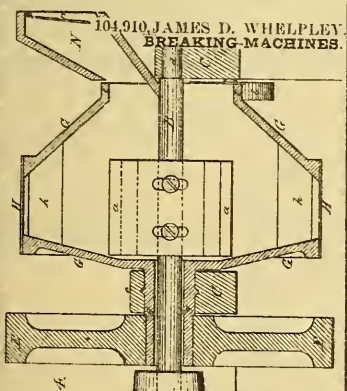
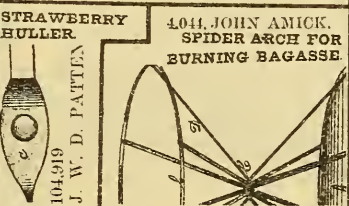
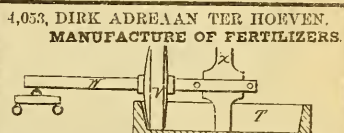
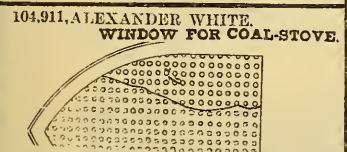
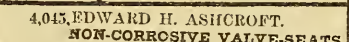
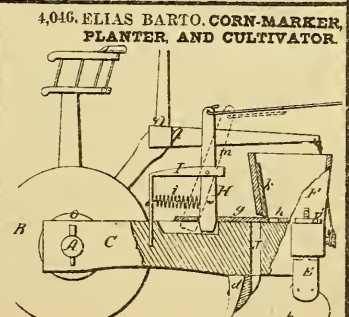
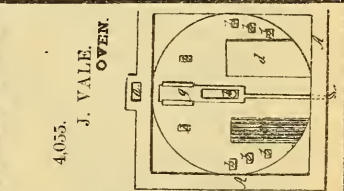
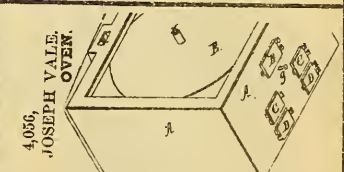


104,897, JOSEPH STEGER, CAR-BRAKES.



104,905,
SAMUEL VANSTONE.
WROUGHT-IRON
COUPLING-PIPE.

104,891, GEORGE W. SHADE.
HORSE HAY-FORKS.

104,906. A. S. VORSE.
SCHOOL-DESK SEAT104,913. JAMES A. WILCOX.
PIPE-WRENCH4,047. JOSEPH C. DU BOIS.
COTTON-GINS.4,048. GODFREY AND R. LIGHTHALL.
PREVENTING THE CORROSION OF IRON
EXPOSED TO WATER OR DAMPNES104,914. HENRY WILSON.
IMPERMEATORS FOR STEAM-ENGINES4,049. JOHN D. LYNDE.
WATER-INDICATOR FOR BOILERS.104,907. RICHD. VOSE.
RAILWAY CAR-SPRINGS104,915. ALFRED WOODWORTH.
EDWIN W. WARREN.
TOOL FOR DRIVING GLAZIERS' POINTS4,050. HENRY W. PUTNAM.
APPARATUS FOR FILLING BOTTLES.104,908. JOHN G. WEAVER, JR.
MANUFACTURE OF CAST PIPE-ELBOWS104,916. A. B. TRIPLER.
PRESERVING WOOD.4,051. ABNER D. STRONG.
VINEGAR APPARATUS.104,909. GEORGE WEINMAN.
PISTON-HEAD AND VALVE.104,917. A. B. TRIPLER.
PRESERVING WOOD FOR RAILROAD
TIES AND FOR OTHER PURPOSES.104,918. CHARLES H. ST. CLAIR.
WIND-WHEELS4,052. DIRK ADREAAN TER HOEVEN.
FERTILIZERS.104,910. JAMES D. WHELPLEY.
BREAKING-MACHINES.104,919. J. W. D. PATTEN.
STRAWBERRY
HULLER4,053. DIRK ADREAAN TER HOEVEN.
MANUFACTURE OF FERTILIZERS.104,911. ALEXANDER WHITE.
WINDOW FOR COAL-STOVE.4,045. EDWARD H. ASHCROFT.
NON-CORROSIVE VALVE-SEATS.4,054. WILLIAM H. TRISSLER.
FAUCETS.4,046. ELIAS BARTO. CORN-MARKER,
PLANTER, AND CULTIVATOR.4,055. J. VALE.
OVEN.104,912.
NATHANIEL GILBERT WHITMORE.
CARTRIDGES.4,056. JOSEPH VALE.
OVEN.

ILLUSTRATIONS OF PATENTS

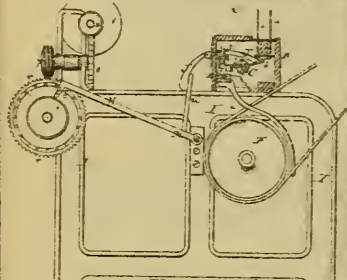
ISSUED FROM

THE UNITED STATES PATENT OFFICE

JULY 5, 1870.

104,920, LEVI ABBOTT.

WARPING-MACHINE.



104,925.

GEO. A. BLAKE.
W. B. TAYLOR.
HEATING-STOVES.

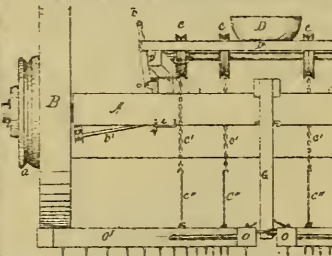
104,930, WILLIAM D. CHAPMAN.

MINNOW PROPELLERS.

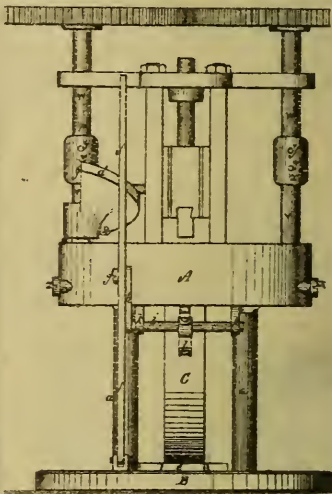


104,926, GEORGE BRADLEY.

SEED-SOWER AND CULTIVATOR.

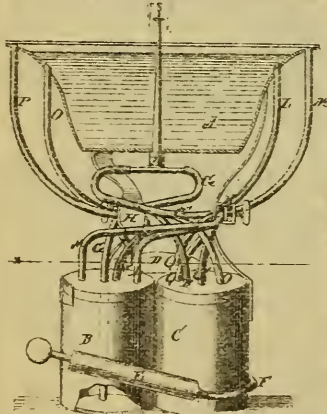


104,931, AURY GATES COES.

MACHINE FOR FORGING THE HEADS
OF WRENCHES

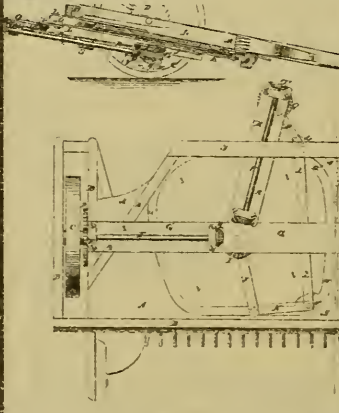
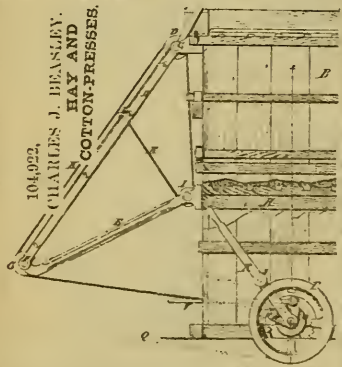
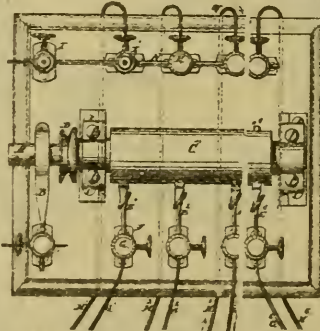
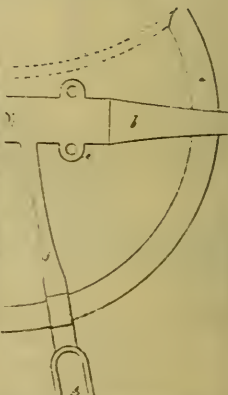
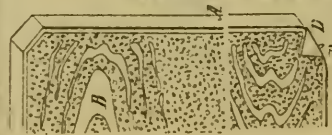
104,921, E. AMENDE.

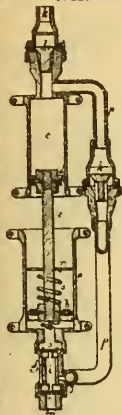
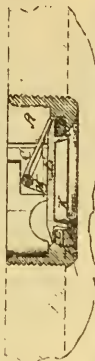
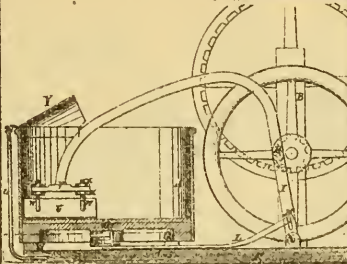
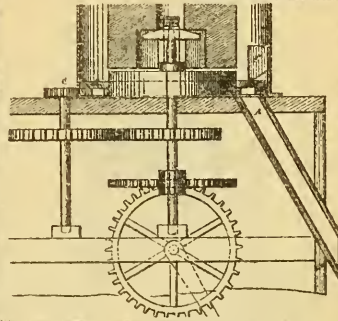
SELF-FEEDING FOUNTAINS.



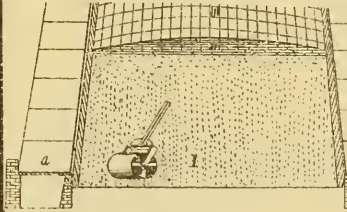
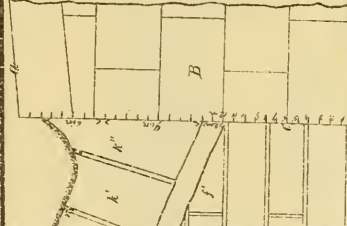
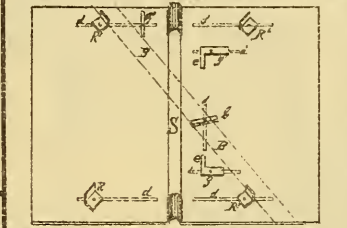
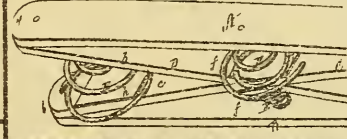
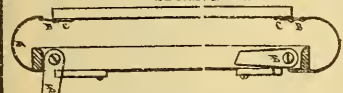
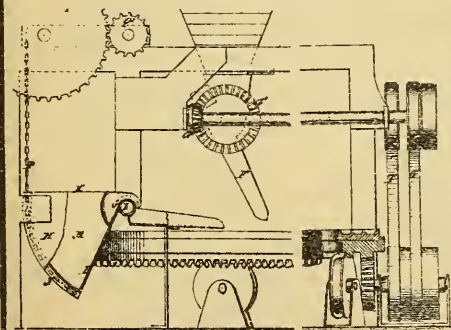
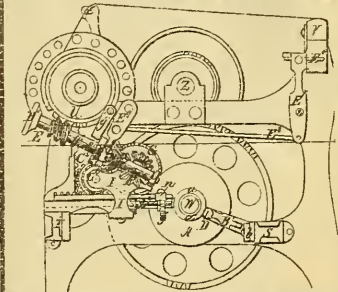
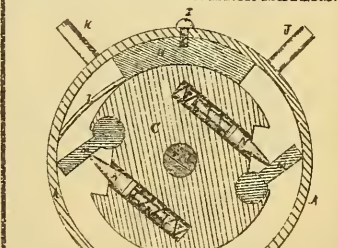
104,927, C. B. BROWN.

HARVESTER RAKE.

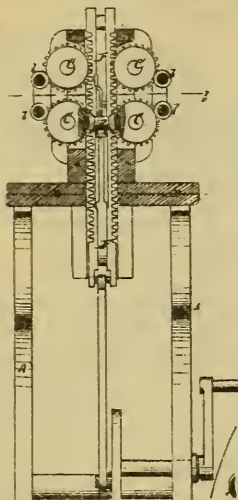
104,922,
CHARLES J. BEASLEY.
HAY AND
COTTON-PRESSES.104,923, MOSES BELDING INSTEP.
STRETCHER FOR
BOOTS AND SECS.104,928, WATKINS LEIGH BURTON.
CIRCUIT-CHANGERS.104,932, WILLIAM A. COLLINS.
FIFTH-WHEEL FOR CARRIAGES.104,924, THOMAS M. BELL. MILK-CAN
BOTTOMS.104,929, JOHN J. CALLOW.
METHOD OF GRAINING.104,933, THEODORE F. CONKLIN.
COVER FOR RAILS
PIRKINS, &c.

104,934, H. H. CRAIGIE. AUTOMATIC
WATER-ELEVATING APPARATUS.104,935,
DAVID M. CUMINGS.
BURGS.104,940, JAMES H. DE POE
MEAT-CHOPPER104,946, SAMUEL T. ECK.
GRINDING-MILLS.

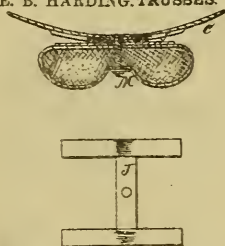
104,941, ANDREW DILGER. PAVEMENTS

104,942, ANDREW DILGER.
STREET-PAVEMENT.104,943, JOSEPH DILL.
TABLE FOR DOVETAILED-MACHINE.104,944, ALONZO S. DRISKO.
ORAMANDER U. DRISKO.
SLAT FOR BEDSTEADS.104,937, THOS. CUMINGS.
COMPOSITION FOR PHOTOGRAPHIC
PURPOSES.104,938, LEWIS CUTLER.
SPRING BED-BOTTOM104,939, HENRY DAVIES.
MANUFACTURE OF IRON BY THE
ELLERSHAUSEN PROCESS.104,945,
WILLIAM W. EASTMAN.
FRANÇOIS B. MARDIN.
JARS FOR WELL-DRILLS.104,949, LEWIS N. FLETCHER.
IRA M. PAGE.
LET-OFF MECHANISM FOR LOOMS.104,950, WILLARD M. FULLER.
WATER-METERS.

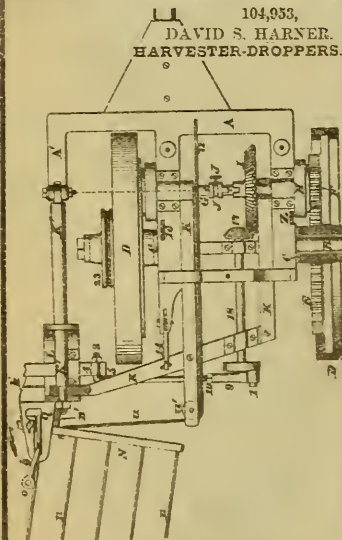
104,951, G. HALL, JR.
MACHINE FOR PRINTING LABELS ON SPOOLS.



104,952, E. B. HARDING. TRUSSES.



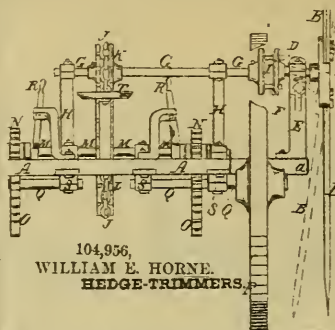
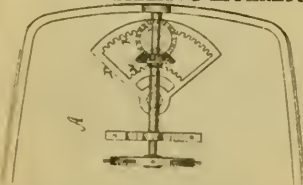
104,953,
DAVID S. HARNER.
HARVESTER-DROPPERS.



104,954, ALFORD L. HARRIS.
FRUIT-CORING KNIFE.



104,955, CHARLES M. HAYDEN.
STEERING APPARATUS.



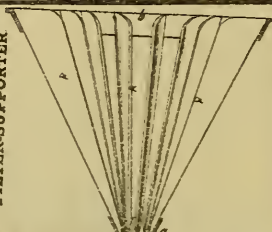
104,956,
WILLIAM E. HORNE.
HEDGE-TRIMMERS.

104,957, JAMES HORNER.
METHOD OF ROLLING METAL BARS.

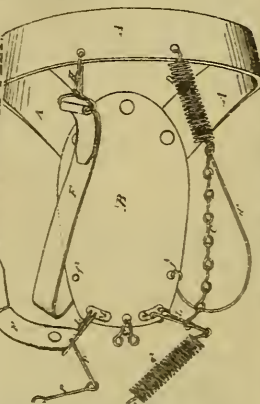
104,958, ALBERT G. HOTCHKISS.
BORING-TOOL.



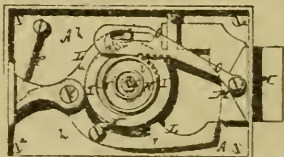
104,959,
FRANK C. HUGHES.
FILTER-SUPPORTER.



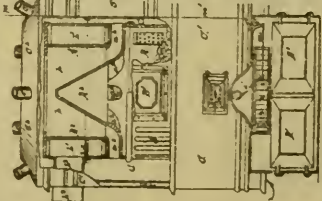
104,960,
JONATHAN JOHNSON.
PADS FOR HORSES' FEET.



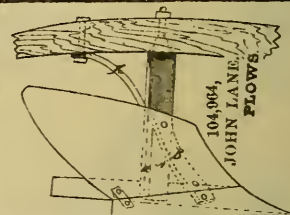
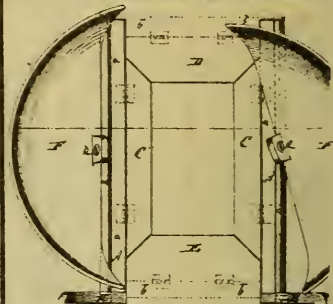
104,961, WILLIAM KOCK.
PERMUTATION LOCKS.



104,962, BENJAMINE S. ROLL.
HOT-AIR FURNACE.

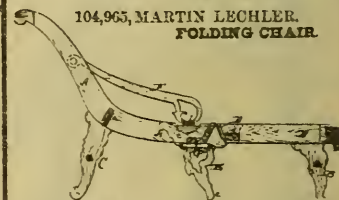


104,963, W. KURTZ.
PHOTOGRAPHIC REFLECTOR.

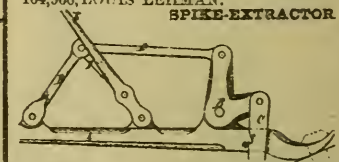


104,964,
JOHN LANE.
FLOWS.

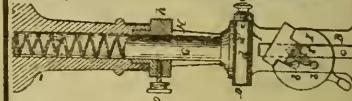
104,965, MARTIN LECHLER.
FOLDING CHAIR.



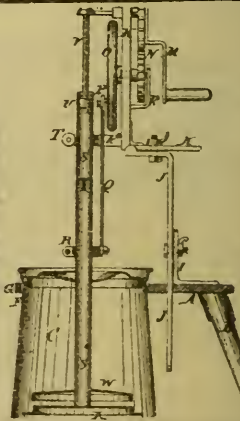
104,966, LOUIS LEHMAN.
SPIKE-EXTRACTOR.



104,967, LOUIS LEHMAN. HAND-STAMPS.



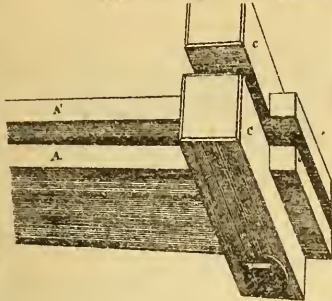
104,968, JAMES LITORT.
CHURNING APPARATUS.



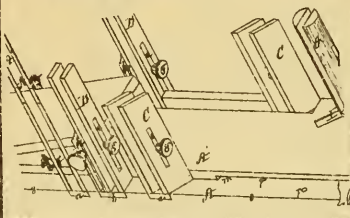
104,969, W. S. LEVAKO.
TUBULAR-ARCHED BRIDGES.



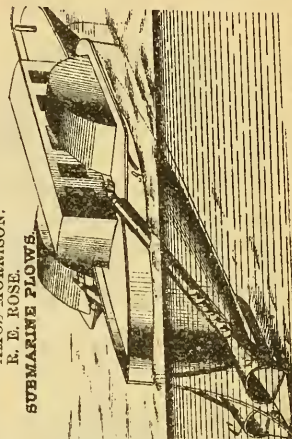
104,970, JUSTUS P. LUTHER.
 SOLON K. BUCK.
 CLAMP FOR MAKING WHIPS.



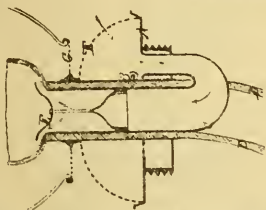
104,975, DANIEL McALLASTER.
 MITER-BOXES AND MITER-SAWS.



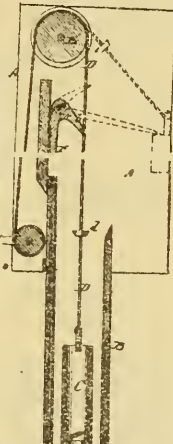
104,981,
 AMOS MORRISON.
 E. E. ROSE.
 SUBMARINE FLOW.



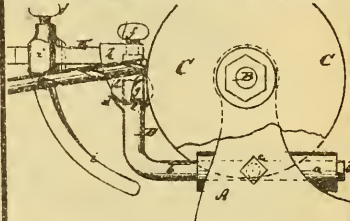
104,971, GEO. R. LYON. LAMP-BURNERS.



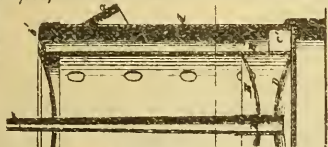
104,976,
 MOSES S. McSWAIN.
 WATER-ELEVATOR.



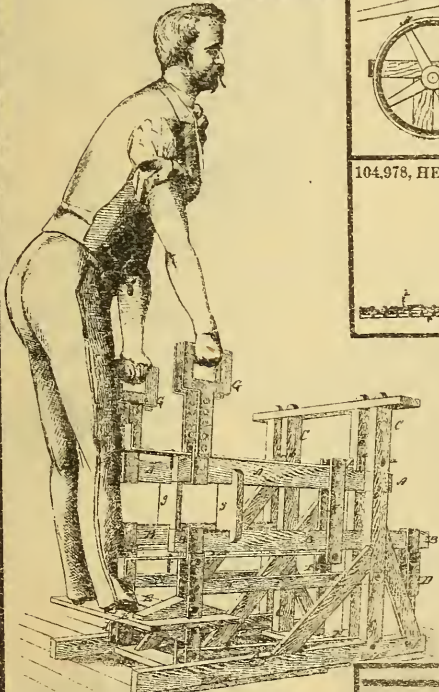
104,982, STEPHEN A. MORSE.
 GRINDING-REST FOR TWIST DRILLS.



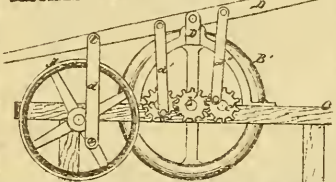
104,972, CYRUS A. MALBY. CHURNS.



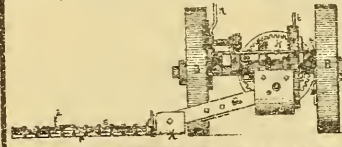
104,973, CHARLES HOLBROOK MANN.
 LIFTING-MACHINES.



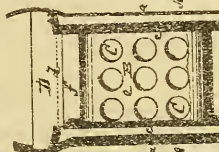
104,977, ELIJAH MELTON.
 MECHANICAL MOVEMENTS.



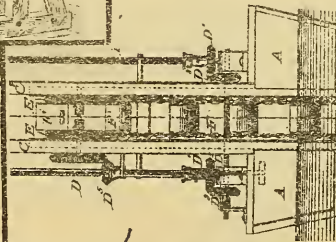
104,978, HENRY MEWES. HARVESTERS.



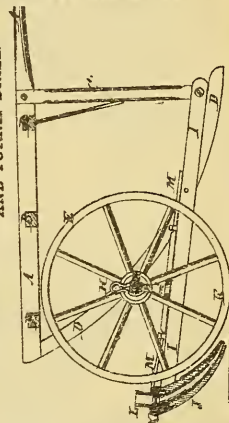
104,979, JOSEPH A. MILLER.
 STEAM-GENERATOR



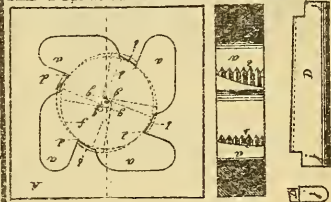
104,980, GOVE MITCHELL.
 DREDGING-MACHINES.



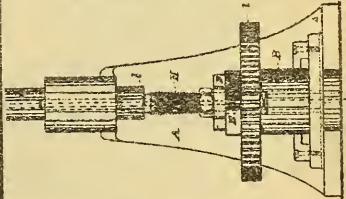
104,983, ALBERT M. NEWLAND.
 COMBINED CART, WHEEL-GEAR, AND TURNIP-DRILL.



104,984, WILLIAM NEWSHAM.
 TAP FOR AND MODE OF CUTTING DIES.



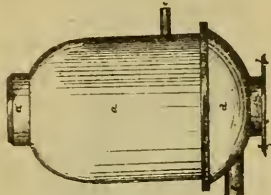
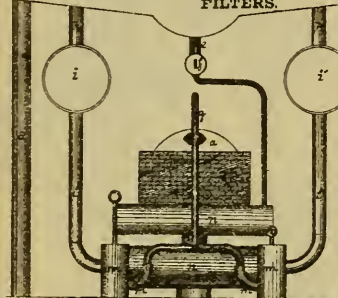
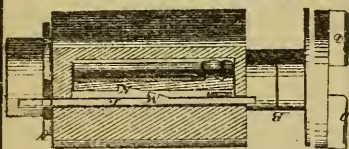
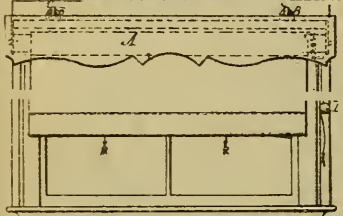
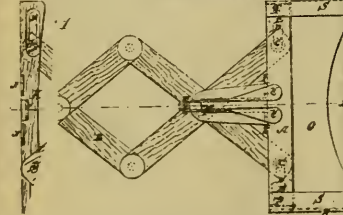
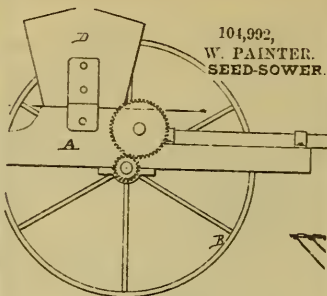
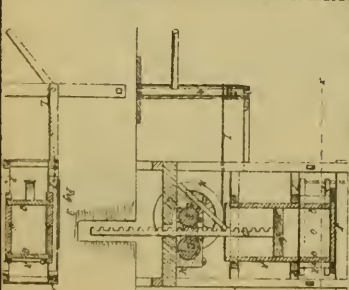
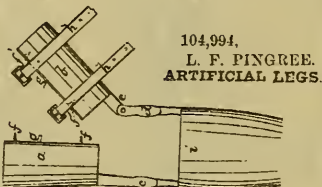
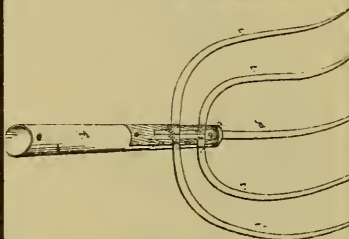
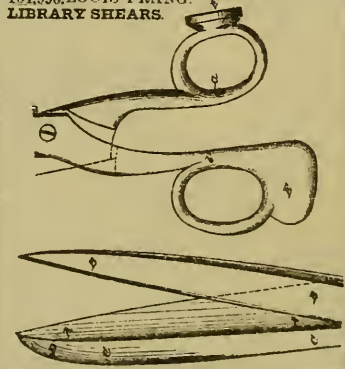
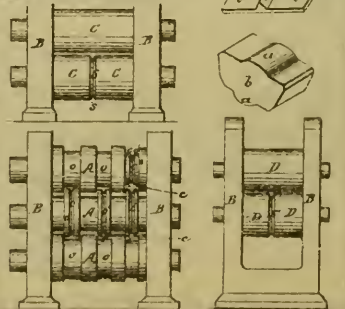
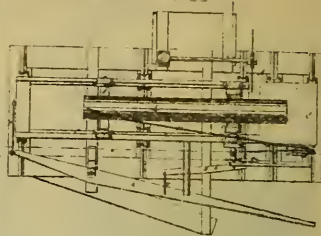
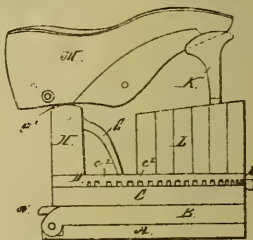
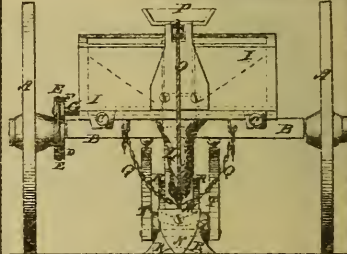
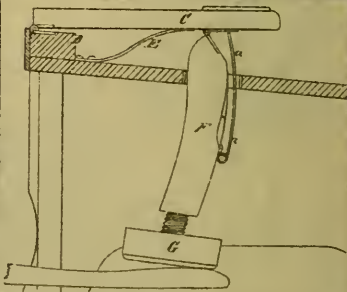
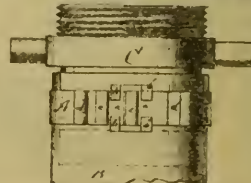
104,985, WILLIAM NEWSHAM.
 MACHINE FOR CUTTING DIES.



104,974, ALFRED C. MANNING.
 SAGE-HOLDERS.



104,986, JOSEPH NIXON. EJECTORS.

104,987, JOSEPH NIXON.
FILTERS.104,988, BENJAMIN BROOKS OCKINGTON.
ANDREW J. OCKINGTON.
ARBOR FOR TURNING CLOTHES-PINS.104,989, H. W. OLNEY. METHOD OF
HANGING WINDOW-SHADES.104,990, EDWIN K. PAGE.
FOLDING-STEREOSCOPES.104,991, URIAH PAGE PRESS FOR
PRESSING COTTON OR HAY.104,992,
W. PAINTER.
SEED-SOWER.104,993, ROLLA A. PEET.
HAY AND MANURE-FORKS.104,994,
L. F. PINGREE.
ARTIFICIAL LEGS.104,995, H. K. PORTER.
LATHE-CENTER.104,996, LOUIS PRANG.
LIBRARY SHEARS.104,997, JACOB REESE. METALLIC LATH
AND BILLETS FROM WHICH THE SAME
MAY BE PRODUCED.104,998, FREDERICK RHOD.
SAWING-MACHINES.104,999, HUBERT RICARD.
PEGGING-JACKS.105,000, JORDAN RIGGSBEE.
COTTON-SEED PLANTER.105,001, D. A. SANBORN.
PENMAN'S HAND-SUPPORTS.105,002, GUSTAV A. SCOTT
W. B. FRISBEE.
SUPPLEMENTARY PEDAL
ATTACHMENT FOR PIANO-FORTES.105,003, AUGUST SCHRADER.
RINGS FOR SECURING
HOSE TO COUPLINGS.

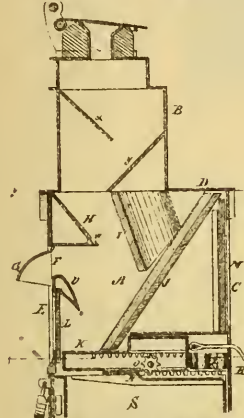
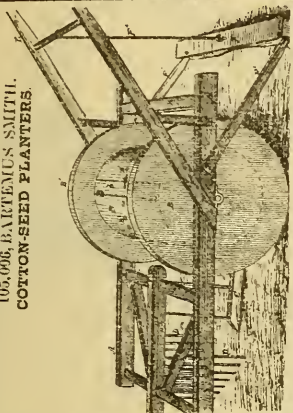
105,004, WILLARD C. SHORT.

CHAIN-LINK.

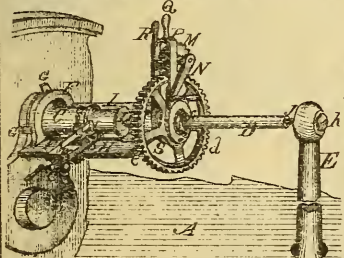
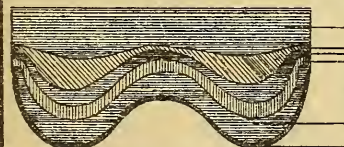
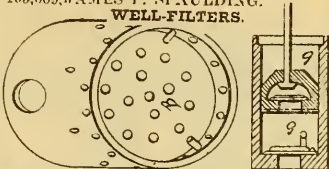
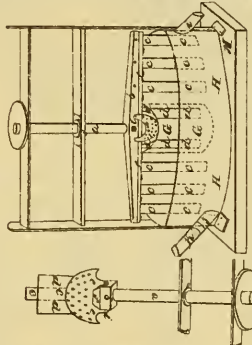
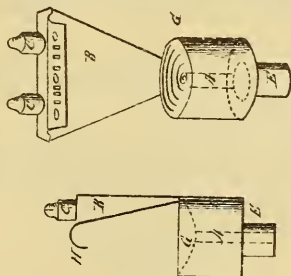
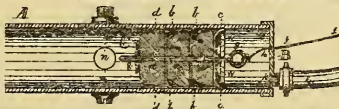
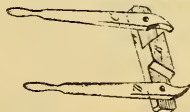


105,005, J. B. SLAWSON.

FARE-BOX FOR VEHICLES.

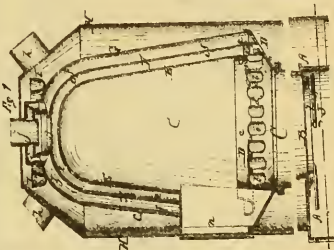
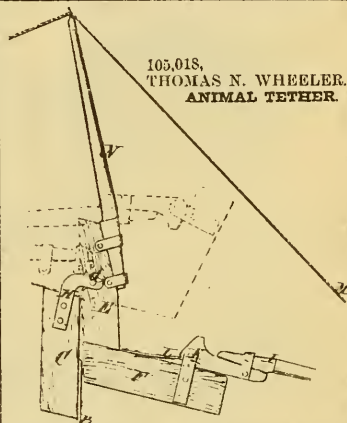
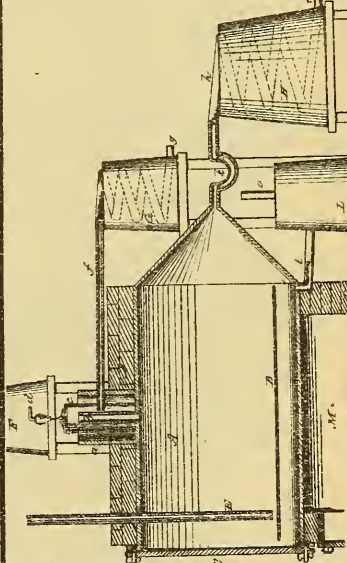
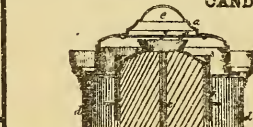
105,006, BARTHEMUS SMITH.
COTTON-SEED PLANTERS.105,007, HORACE S. SMITH.
WM. D. WHITMORE.

MACHINE FOR TURNING CRANK-PINS.

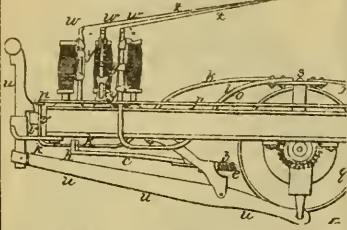
105,008, W. C. SMITH. CONSTRUCTION
OF DENTAL IMPRESSION-MOLDS.105,009, JAMES P. SPAULDING.
WELL-FILTERS.105,010, WELLS SPICER.
APPARATUS FOR SAVING MERCURY
FROM THE WASHINGS OF GOLD AND
SILVER ORES.105,011, OSCAR MAX SPILLER, M. D.
MEDICAL COMPOUND FOR THE
CURE OF FEVER AND AGUE.105,012, WM. STEWART. APPARATUS FOR
GENERATING AND BURNING GAS.105,013, JAMES C. TAYLOR.
CORPSE-PRESERVER.105,014, MARSHALL TURLEY.
BENJAMIN F. THOMAS.
PRINTERS' INK.105,015, JAN VAN SLOOTEN.
CALEB S. HUNT.
WM. McCULLOCH.
PIPE-CLEANSING APPARATUS.105,016, WALTER WARD.
SPIKE-EXTRACTOR.

105,017, EDWARD WEBSTER.

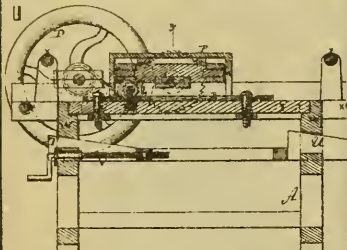
HOT-AIR FURNACE.

105,018,
THOMAS N. WHEELER.
ANIMAL TETHER.105,019, THOMAS W. WHEELER.
DISTILLING PINE WOOD.105,020, THOMAS SCOTT WILLIAMS.
FREEMAN AUGUSTUS TABER.
CANDLE-LAMPS.105,021, JOHN WILSON.
GEORGE H. BAISLY.
WELL-AUGERS.

105,022, GILMAN K. WINCHESTER.
STOP-MOTION SPRING FOR
BRAIDING-MACHINES.



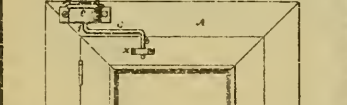
105,023, JOHN A. WOOD.
SAWING-MACHINE.



105,024, JACKSON WRIGHT.
GREEN WRIGHT.
STONE-TRUCKS.



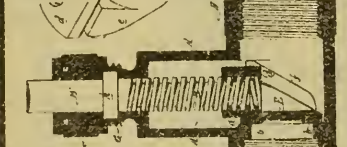
105,025, WARREN ALLEN, DOOR-SPRINGS.



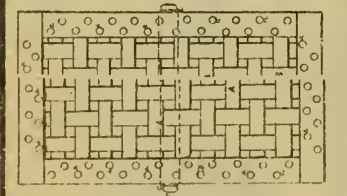
WM. H. ANDREWS, REVERSIBLE LATCH.
105,926,



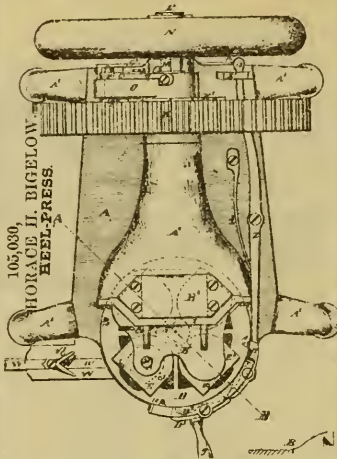
105,027, HENRY BELFIELD. VALVES.



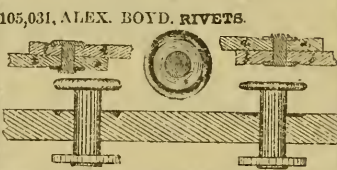
105,028, VAN BELL. BED-BOTTOM.



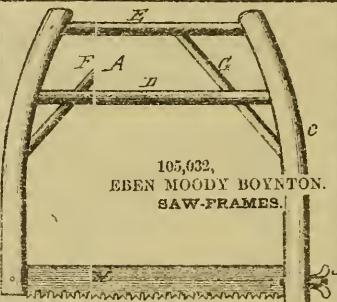
105,029,
MORRIS L. BENNETT.
TUNING-SCALE.



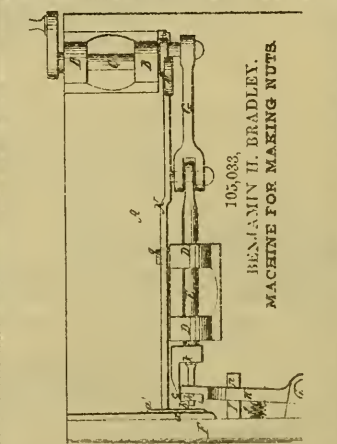
105,030,
HORACE D. BIGELOW.
REEL-PRESS.



105,031, ALEX. BOYD. RIVETS.

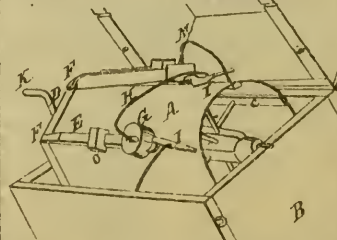


105,032,
EBEN MOODY BOYNTON.
SAW-FRAMES.

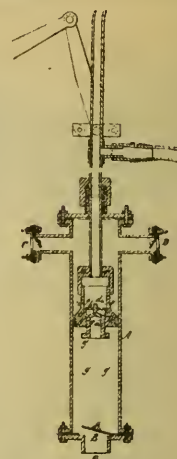


105,033,
BENJAMIN H. BRADLEY.
MACHINE FOR MAKING NUTS.

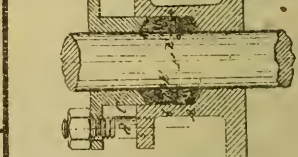
105,034, J. W. BRADLY
FLOUR-BOLT KNOCKER.



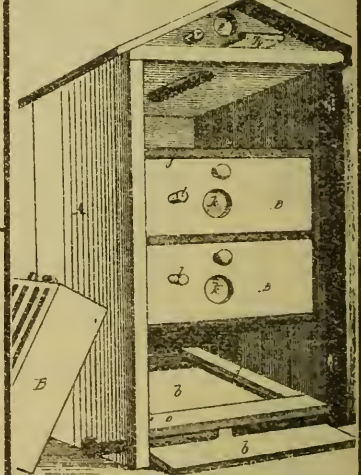
105,035,
MARTIN BRAUN.
DOUBLE-ACTING PUMPS.



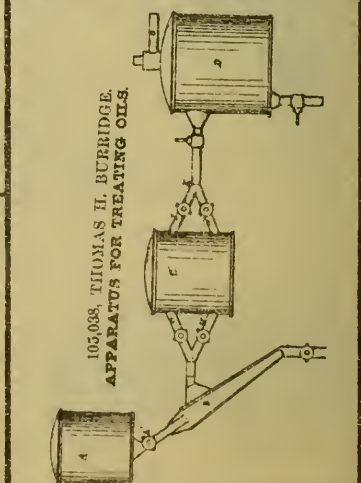
105,036, WILLIAM BROWN.
STEAM-PACKING.



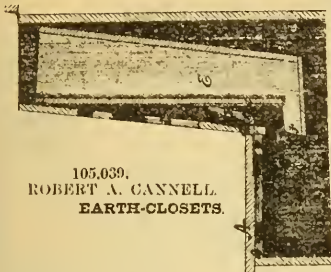
105,037, DAVID S. BURGET.
BEE-HIVES.



105,038, THOMAS H. BURRIDGE.
APPARATUS FOR TREATING OILS.



105,039,
ROBERT A. CANNELL.
EARTH-CLOSETS.



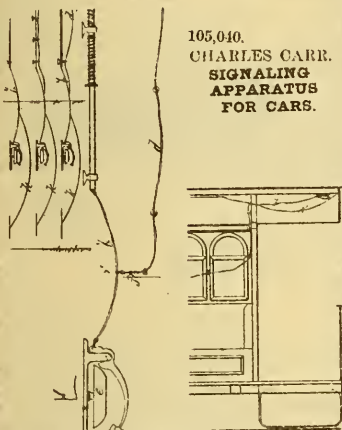
105,044, JOHN HOSMER CLARK. FILES.



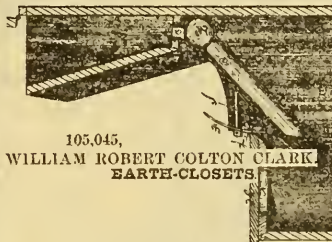
105,050, CASPER DITTMAN. HAY-KNIVES



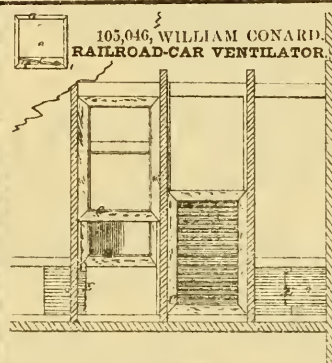
105,040,
CHARLES CARR.
SIGNALING
APPARATUS
FOR CARS.



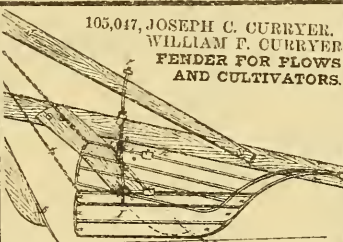
105,045,
WILLIAM ROBERT COLTON CLARK.
EARTH-CLOSETS.



105,046, WILLIAM CONARD.
RAILROAD-CAR VENTILATOR.

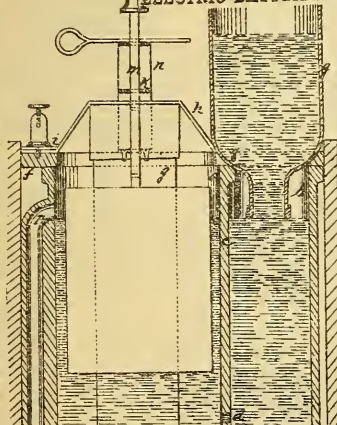


105,047, JOSEPH C. CURRYER.
WILLIAM F. CURRYER.
FENDER FOR FLOWS
AND CULTIVATORS.

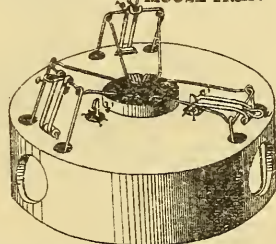


105,041. CANCELED

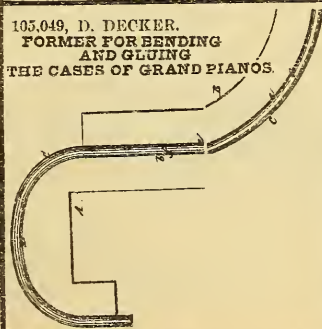
105,042, T. CHUTAUX.
ELECTRIC BATTERIES.



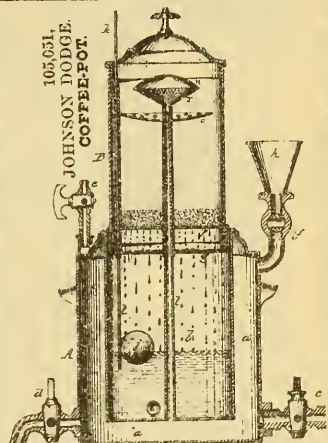
105,048, ANTHONY G. DAVIS.
HENRY S. FROST.
MOUSE-TRAP.



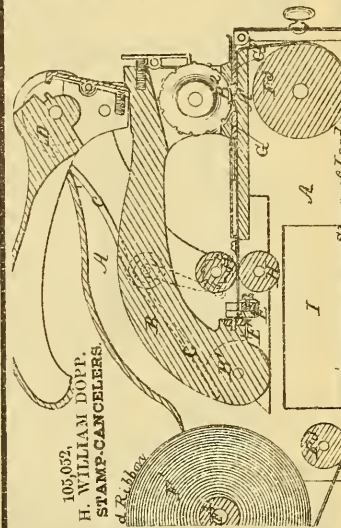
105,049, D. DECKER.
FORMER FOR BENDING
AND GLUING
THE CASES OF GRAND PIANOS.



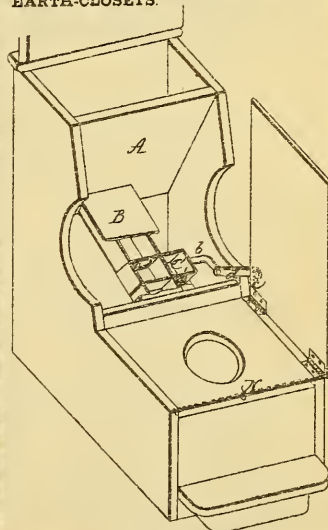
105,051,
JOHNSON DODGE.
COFFEE-POT.



105,052,
H. WILLIAM DODGE.
STAMP-CANCELERS.



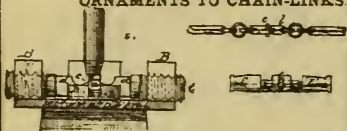
105,053, JAMES ADDISON DRAKE.
EARTH-CLOSETS.



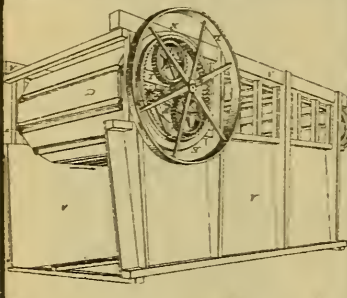
105,043, T. CHUTAUX.
ELECTRIC BATTERIES.



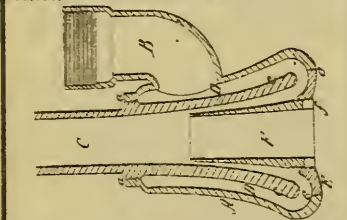
105,054, VIRGIL DRAPER.
MACHINE FOR ATTACHING
ORNAMENTS TO CHAIN-LINKS



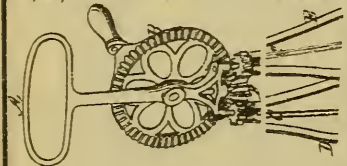
105,055, JOSEPH H. DULL. TREAD-POWER



105,056, JAS. B. EADS. PUMPS.



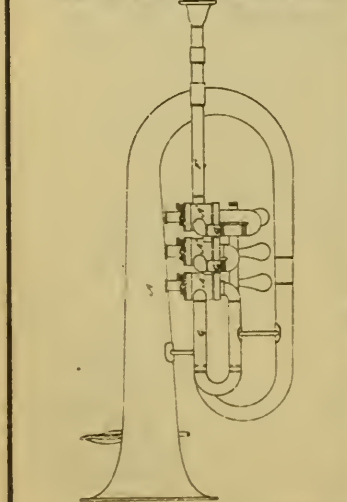
105,057, TIMOTHY EARLE. EGG-BEATER



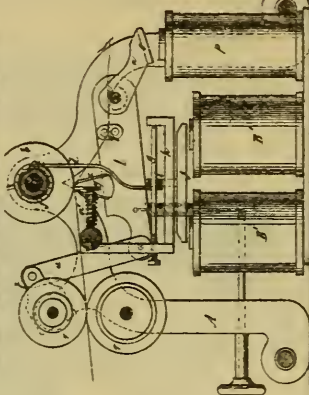
105,058, ALFRED B. FLY.
EDW. C. CLAY.
BREECH-LOADING FIRE-ARMS.



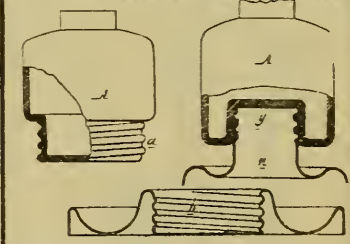
105,059, WILHELM C. FIETZ. CORNETS
AND OTHER WIND INSTRUMENTS.



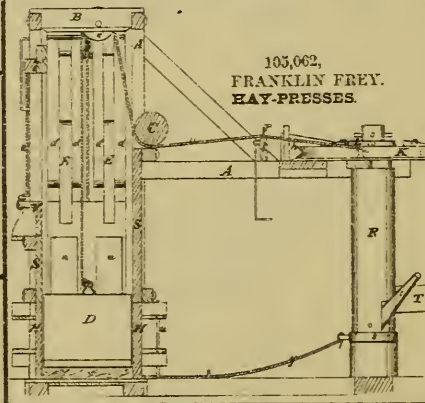
105,060, T. M. FOOTE AND C. A. RANDALL.
TELEGRAPHIC PRINTING APPARATUS.



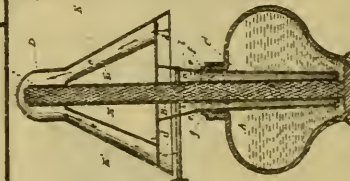
105,061, ALONZO FRENCH.
MODE OF SECURING GLASS
VESSELS TO METAL BASES.



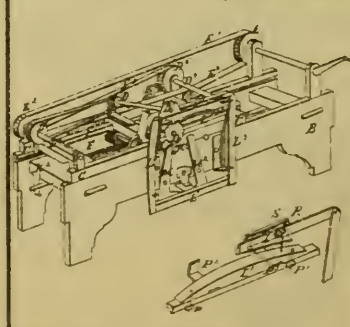
105,062,
FRANKLIN FREY.
HAY-PRESSES.



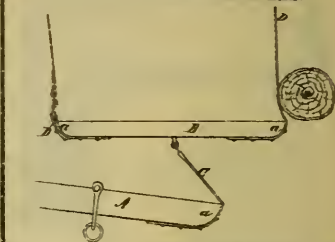
105,063, GEORGE P. FULLER. LAMPS.



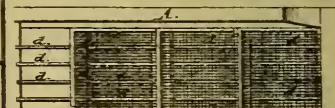
105,064, ROBERT W. GEORGE.
STAVE-JOINTER.



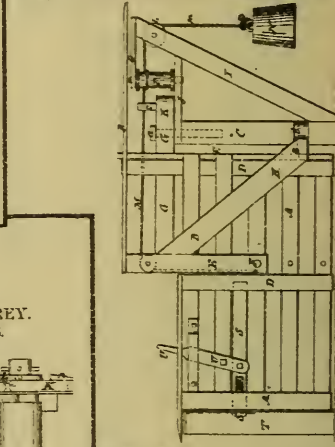
105,065, ARTHUR GREENMAN.
WHIFFLETREES.



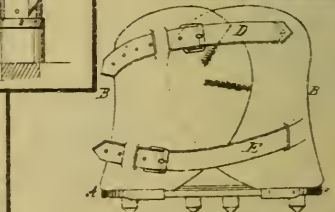
105,066, NATHAN S. GREENWOOD.
GRAIN AND SEED-SIEVES.



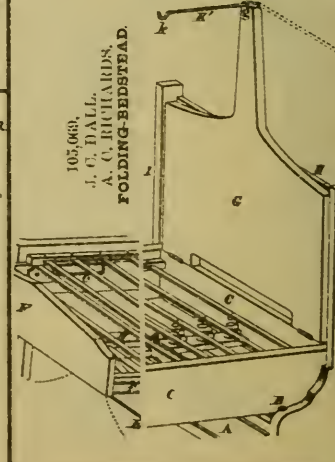
105,067, ISAAC H. GUSTIN. GATES.

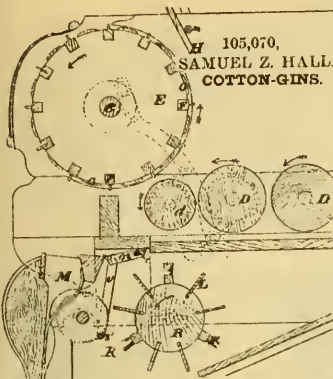


105,068,
HENRY G. HAEDRICH.
EDWARD M. HAEDRICH.
COMBINED BOOT AND
SHOE FOR HORSES.



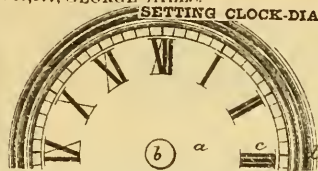
105,069,
J. C. DALL.
A. C. RICHARDS.
FOLDING-BEDSTEAD.



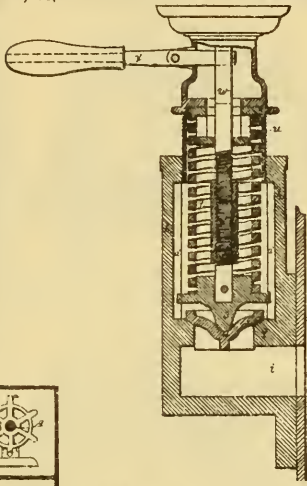


105,070,
SAMUEL Z. HALL.
COTTON-GINS.

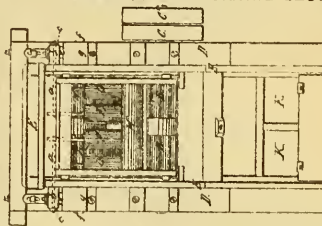
105,077, GEORGE HILLS.
SETTING CLOCK-DIALS.



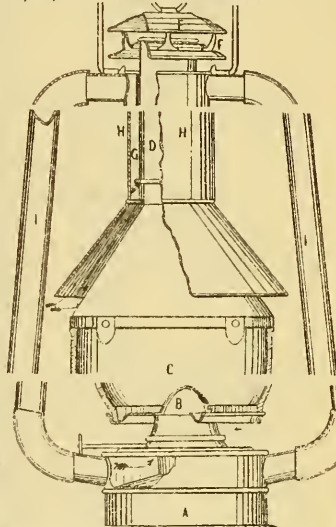
105,078, J. C. HOADLEY. STEAM-ENGINES.



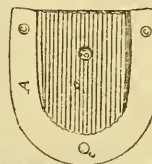
105,082, RODNEY HUNT.
MACHINES FOR FULLING CLOTH.



105,083, J. H. IRWIN. LANTERNS.

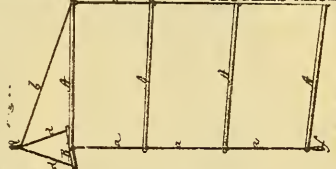


105,084, GUSTAV L. JAEGER.
ADHESIVE COMPOUND FOR
PREPARING PASTEBOARD.

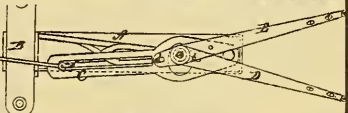


105,085,
WM. S. JESSUP.
TRUNK-HANDLE CAP.

105,086, JOSEPH JOHNSON.
CLOTHES-RACK.



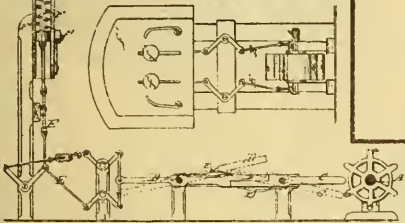
105,087, W. T. JOHNSTON.
ALLEN JOHNSTON.
EMBROIDERING ATTACHMENT
FOR SEWING-MACHINE.



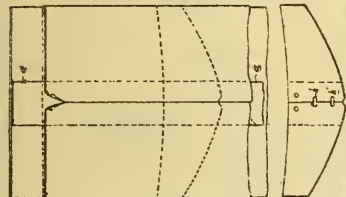
105,088, SOLOMON JONES.
B. TERFLOTH.
DEVICES FOR PROPPELLING
STREET-CARS.



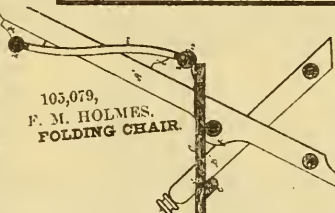
105,071, A. R. HARRIS.
APPARATUS FOR SIGNALING THE
DIRECTION OF MOTION OF
MARINE-ENGINES.



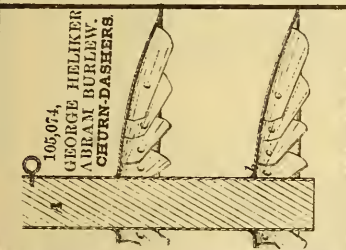
105,072, WILLIAM H. HART, JR.
HIRAM H. THAYER.
NECK-TIE HOLDERS.



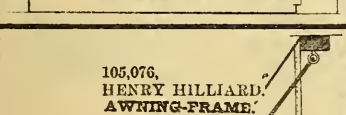
105,079,
F. M. HOLMES.
FOLDING CHAIR.



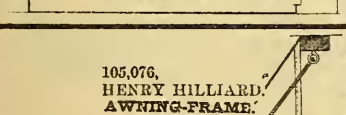
105,073, JOHN BRIGHTMAN HASKINS.
MEDICAL COMPOUND.



105,074, GEORGE BELKNER
ABRAHAM BUREAU
CHURN-DASHERS.



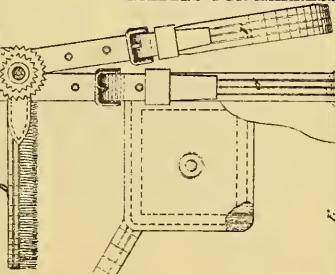
105,075, C. F. HERRICK.
REVERSIBLE LATCHES.



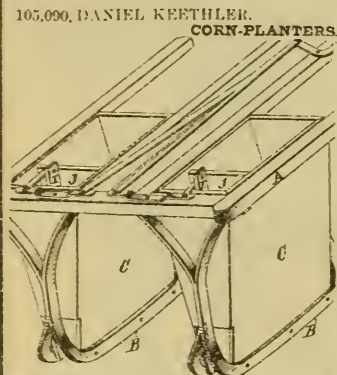
105,076,
HENRY HILLIARD.
AWNING-FRAME.



105,081, GEORGE HORTER.
BRIDLES FOR HARNESS.

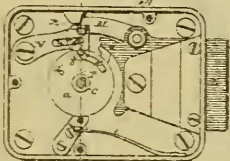


105,089, DANIEL KAEMPFE.
CARL LIST.
COMPOUNDING CHINA-CLAY TO
IMITATE MARBLE, MOTHER-OF PEARL.

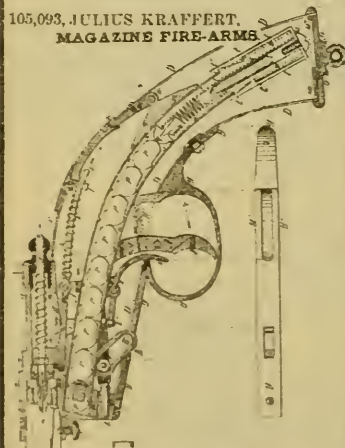
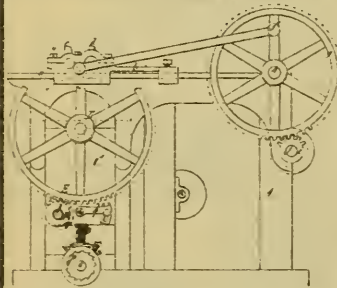


105,090, DANIEL KEETHLER.
CORN-PLANTERS.

105,091, WILLOUGHBY F. KISTLER.
PERMUTATION LOCKS.

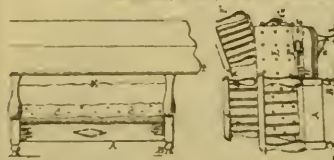


105,092, GEORGE KOCH
VENEER-CUTTERS

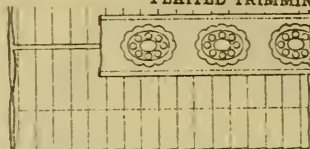


105,093, JULIUS KRAFFT.
MAGAZINE FIRE-ARMS

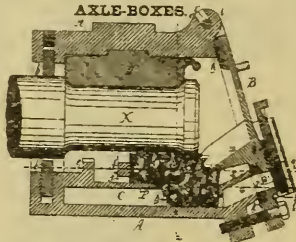
105,094, CHAS. F. KRAMER.
SETTEE, BED, AND TABLE.



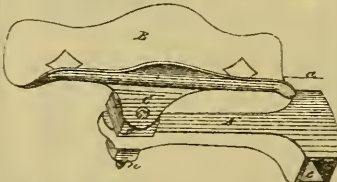
105,095, FREDERIC A. KURSHEEDT.
PLAITED TRIMMINGS.



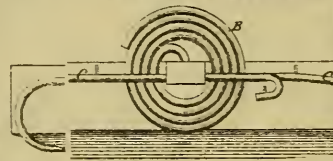
105,096, JOHN JOSEPH LAHAYE.
JOHN EASTBURN WOOTTEN.
AXLE-BOXES.



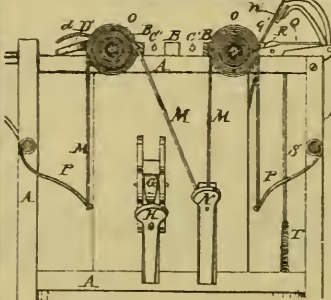
105,097, JAMES LEWIS.
TOP-REST FOR CARRIAGES.



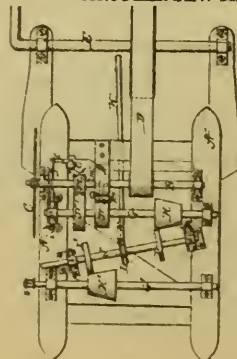
105,098, E. T. LIGON.
PROPELLING APPARATUS.



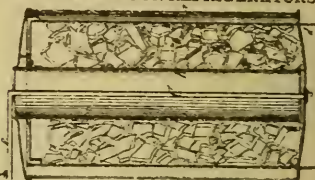
105,099, NICHOLAS LORTON.
JOHN S. DAVISON.
PAPER BAG MACHINES.



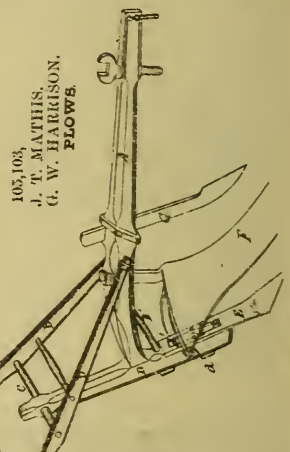
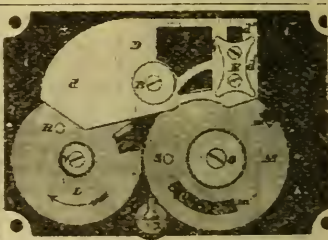
105,100, JAMES R. LUCE.
CIRCULAR-SAW MILLS.



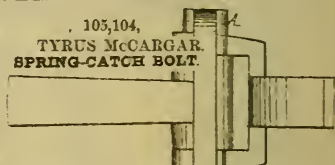
105,101, JOHN H. LYNCH.
ICE-CHAMBER FOR REFRIGERATORS.



105,102, NEIL MACNEALE.
PERMUTATION LOCKS.



105,103,
J. T. MATHIS.
G. W. HARRISON.
FLOWS.



105,104,
TYRUS McCARGAR.
SPRING-CATCH BOLT.

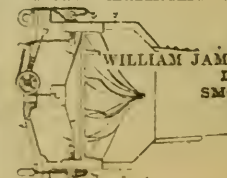
105,105, GEO. A. McILHENNY.
LOCKS FOR PIPE-COUPINGS.



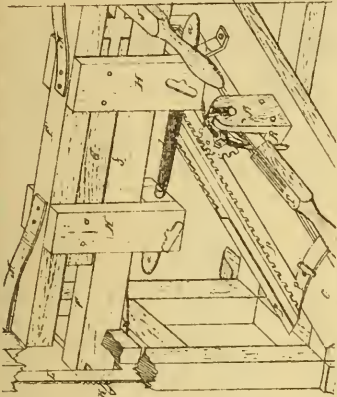
105,106, ALEX. McKENNA. HYDRANTS.
JOHN McKENNA.
THOMAS McKENNA.



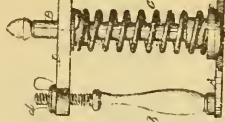
105,107,
WILLIAM JAMES MEHARY.
LOCOMOTIVE
SMOKE-STACKS



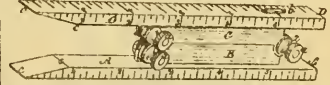
105,108, HENRY H. MELLEN.
SAW-FILING MACHINES.



105,115, FRANCIS R. MOORHEAD
SAFETY-VALVES FOR
DENTAL VULCANIZERS.



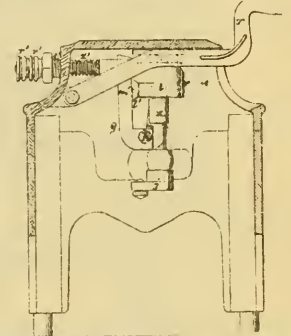
105,121, JOHN D. OTSTOT.
COMBINED BEVEL SQUARE, RULE, &c



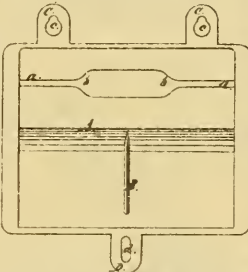
105,122, WM. A. PARMELE.
ADJUSTABLE LINKS
FOR WATER-WHEEL GATES.



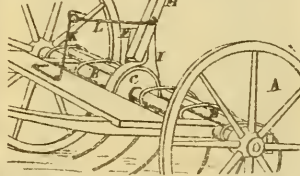
105,123, TRUMAN W. PEPPER.
SEWING-MACHINE.



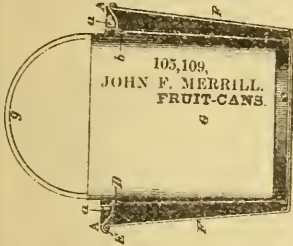
105,116,
ALNU. E. MURRAY.
WATER-CLOSET BOX.



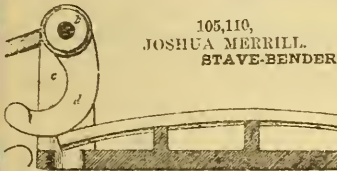
105,117, LORENZO MYERS.
HORSE HAY-RAKES.



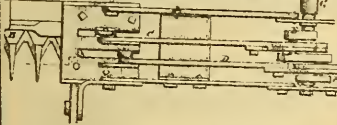
105,109,
JOHN F. MERRILL.
FRUIT-CANS.



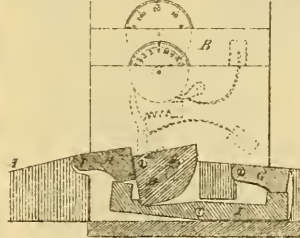
105,110,
JOSHUA MERRILL.
STAVE-BENDER.



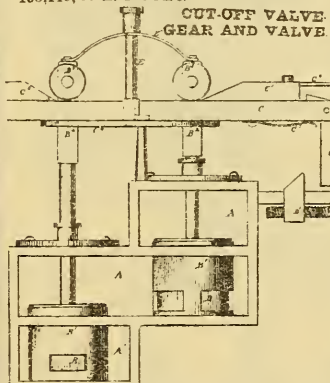
105,111, HENRY MEWES. CUTTING
APPARATUS FOR HARVESTERS



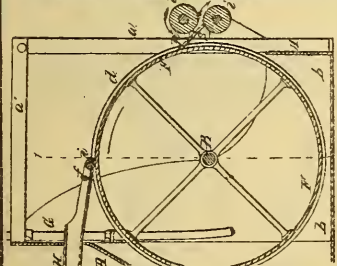
105,118, F. NICHOLSON.
TALLYING-REGISTER FOR FREIGHT.



105,119, G. E. NOYES.
CUT-OFF VALVE
GEAR AND VALVE



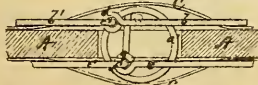
105,112, JAMES MILLINGAR.
MACHINE FOR MAKING SHEET-LEAD.



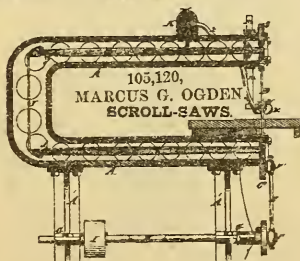
105,113, VICTOR MILWARD.
NEEDLE-WRAPPERS.



105,114, THOMAS E. MOORE.
PAPER-FILES.

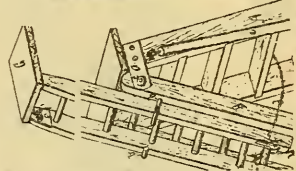


105,120,
MARCUS G. OGDEN.
SCROLL-SAWS.



105,125, ROBERT PRICE.
PAPER FOR BONDS, DRAFTS, CHECKS.

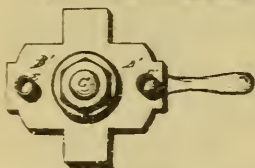
105,126, NATHANIEL PULLMAN.
EXTENSION LADDERS.



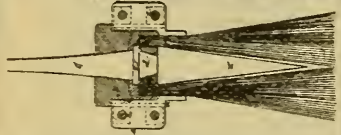
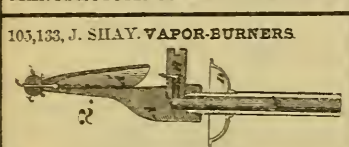
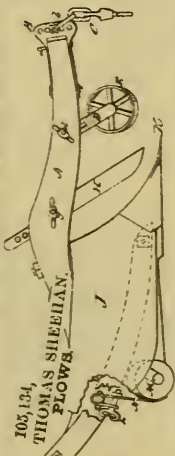
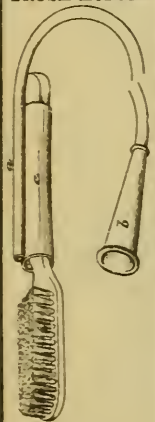
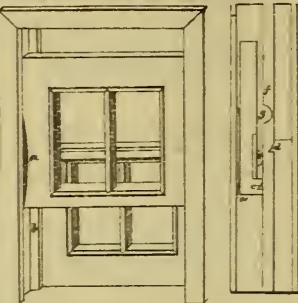
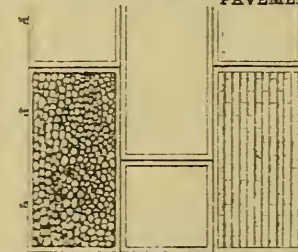
105,127. CANCELED.

105,128, FRANKLIN ROBERTS.
TANKS FOR
HOLDING COMPRESSED AIR.

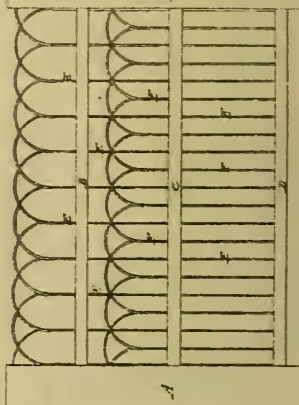
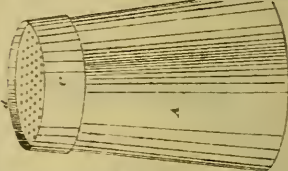
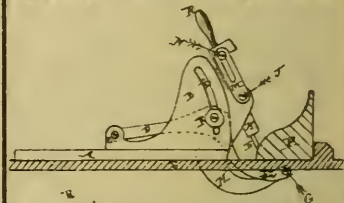
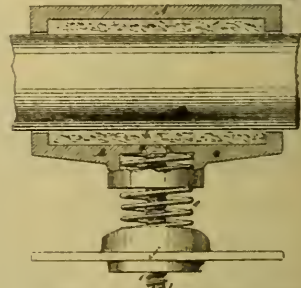
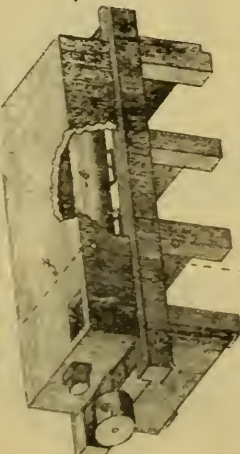
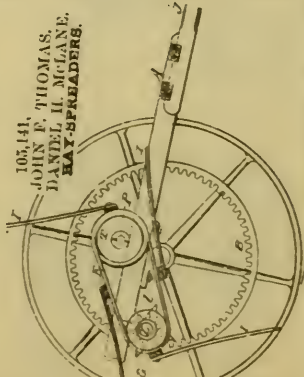


105,129, THOMAS RODDA, REVERSING-
VALVE FOR STEAM-ENGINES.

105,130, CHARLES F. RUSET, BRUSH.

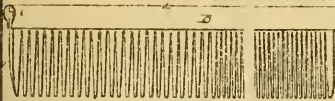
105,131, CHARLES F. RUSET, DEVICE FOR
MANUFACTURING BRUSHES.105,132, CARL SCHAEFFER,
MANUFACTURE OF ARTIFICIAL STONE.105,135,
W. A. SHEPARD,
FOUNTAIN
BRUSH HOLDER.105,134,
THOMAS SHEEHAN,
FLOW.105,137, ELIAS SMITH,
WINDOW-SASHES AND FASTENERS.105,133, ANDREW STEVENS,
LOUIS A. CAUVET,
PAVEMENTS.105,139
OLE O. STORLE,
HARVESTER-RAKES.105,142, WILLIAM A. TORREY,
APPLICATION OF CARBOLIC ACID FOR
PREVENTING DECAY AND MILDEW IN
SAIL-CLOTH, CANVAS AND OTHER
FIBROUS AND TEXTILE MATERIALS

105,143, DAVID M. TYLER, FENCE.

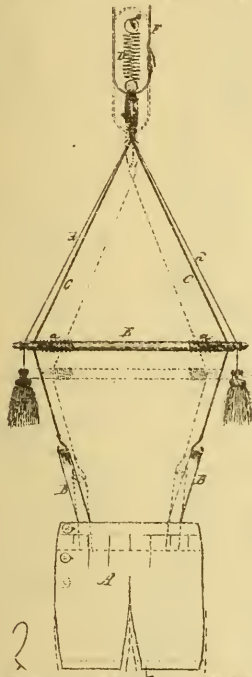
105,144, C. C. VAN DEUSEN,
BEE-FEEDERS.105,145, RICHARD VAN RIPER,
MACHINE FOR FLUTING MOLDINGS.105,146, ERNEST VON JEINSEN,
SELF-ACTING LUBRICATOR FOR
AXLE-BOXES.105,136, EDGAR COLLINS SINGEL,
MACHINE FOR HULLING COTTON-SEED.105,141,
JOHN F. THOMAS,
DANIEL H. McLANE,
HAY-SPREADERS.105,147,
ERNEST VON JEINSEN,
AUTOMATIC LUBRICATOR.

105,148, EDWARD EDMONDS WARNER.
JACOB WILLIAM WALTON.
ROBERT VINE.

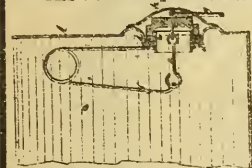
METAL-BACKED COMBS.



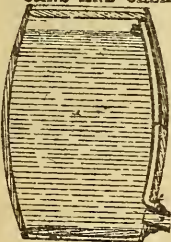
105,149, EGBERT L. WARNER.
BABY-JUMPER.



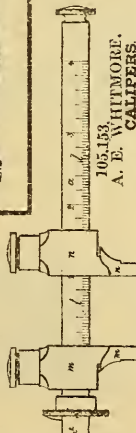
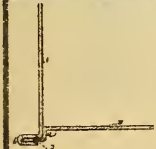
105,150, ALBIN WARTH.
TAPS FOR LIQUID PACKAGES.



105,151, ABEL L. WEBSTER.
NOZZLES FOR
CANS AND CASES.

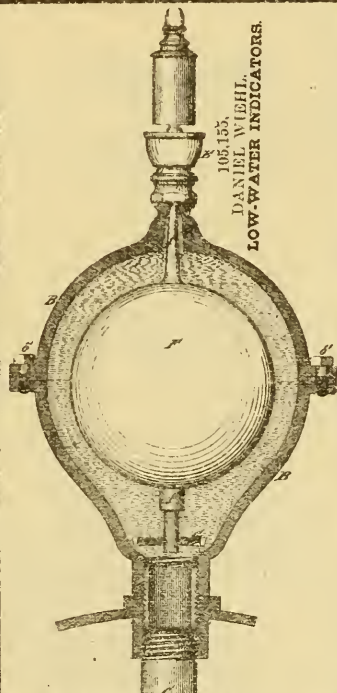
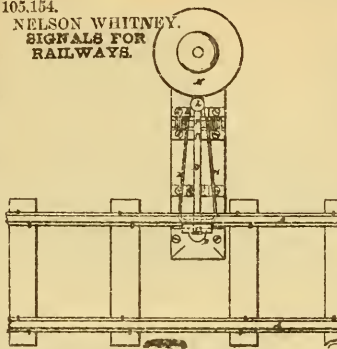


105,152, ABEL L. WEBSTER.
SEAMS FOR CANS.



105,153,
A. E. WHITMORE.
CALIPERS.

105,154, NELSON WHITNEY.
SIGNALS FOR
RAILWAYS.

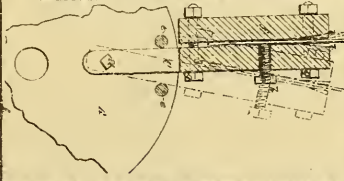


105,155,
DANIEL VIEHL.
LOW-WATER INDICATORS.

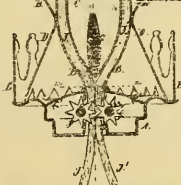
105,156, PERLEY H. LAWRENCE.
APPARATUS FOR CUTTING THE
CASINGS OR TUBES OF OIL-WELLS.



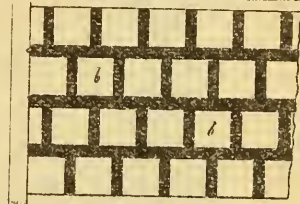
4,057, RALPH P. BAILEY.
PLATT D. BABBITT.
MACHINE FOR DRESSING MARELE.



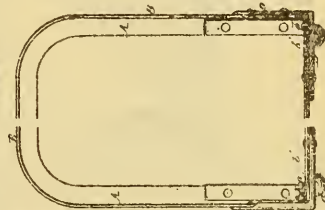
4,058, ABRAHAM BURTIS.
WM. D. LUDLOW.
MARY A. VAN ALLEN.
LAMP-BURNERS.



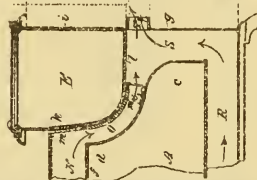
4,059, HENRY L. CRANFORD
COMPOSITION PAVEMENTS.



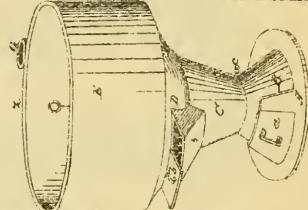
4,060, FREDRICK FISCHBECK.
TRAVELING-BAGS.



4,061, SHERMAN S. JEWETT.
COOKING-STOVE.



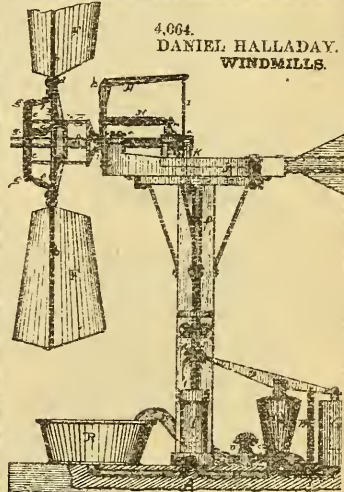
4,062, ALLEN N. MERRILL.
FARMERS' BOILER.



4,063, GEO. H. PHILLIPS.
COOKING-STOVE.



4,064,
DANIEL HALLADAY.
WINDMILLS.

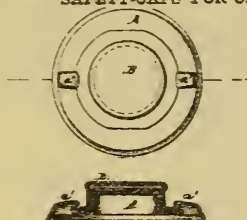


ILLUSTRATIONS OF PATENTS

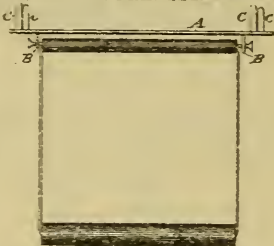
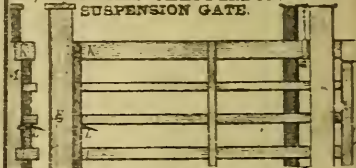
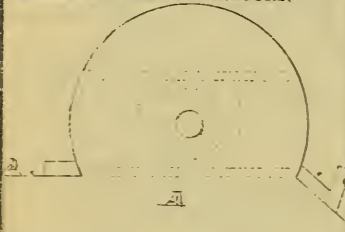
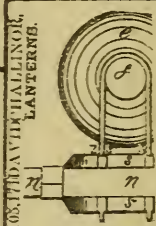
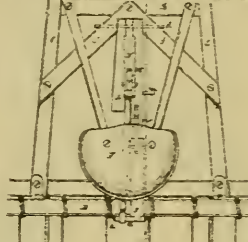
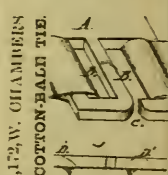
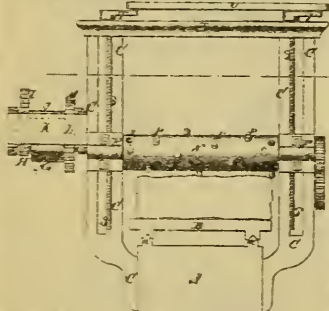
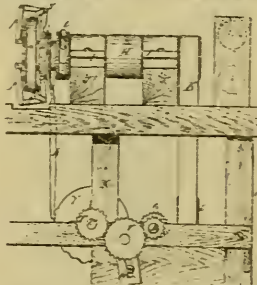
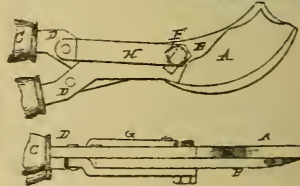
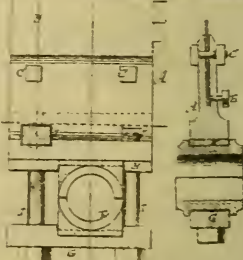
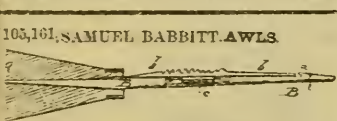
ISSUED FROM

THE UNITED STATES PATENT OFFICE

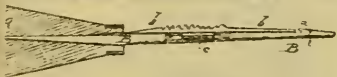
JULY 12, 1870.

105,157, HORACE C. ALEXANDER.
SAFETY-CAPS FOR CANS

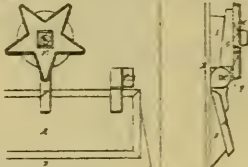
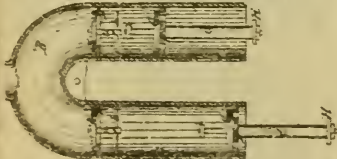
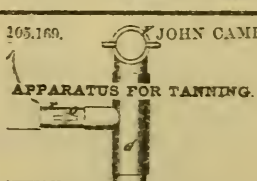
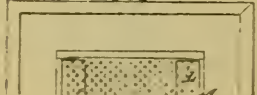
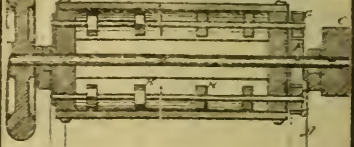
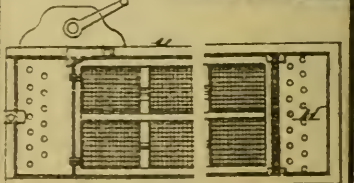
105,164, THOS. H. BRADLEY, BIRD-CAGES.

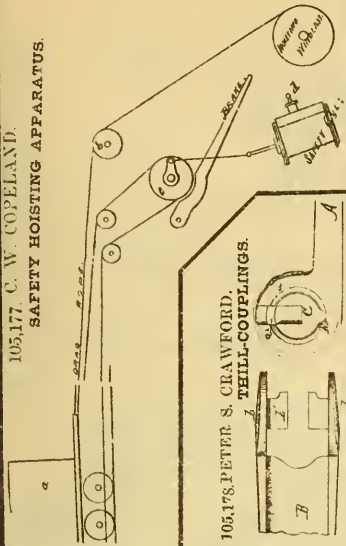
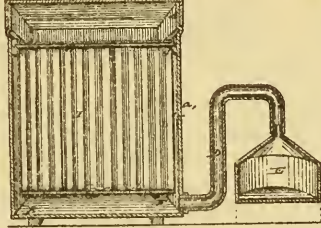
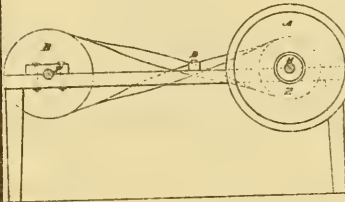
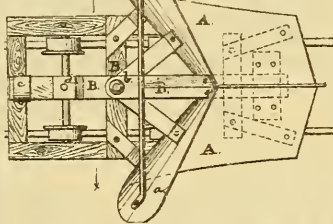
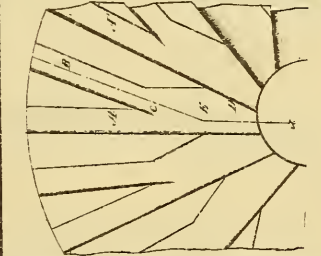
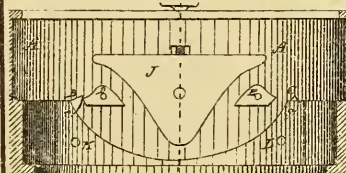
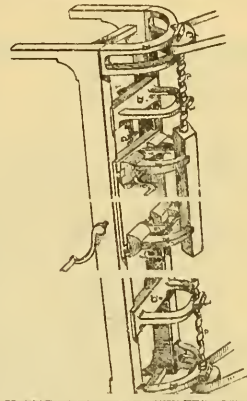
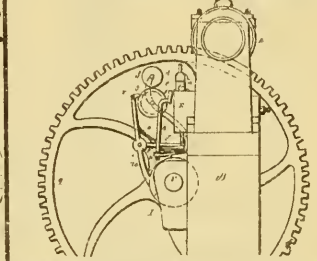
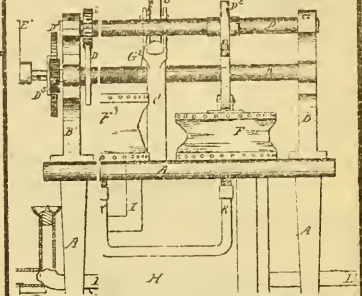
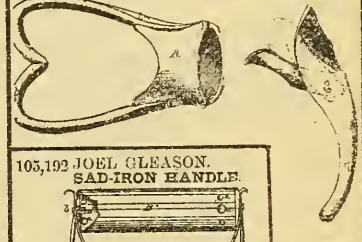
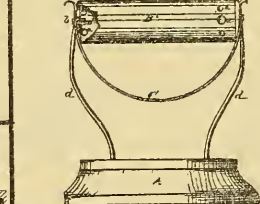
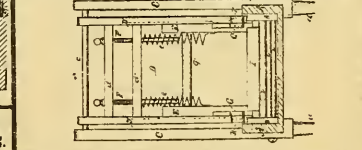
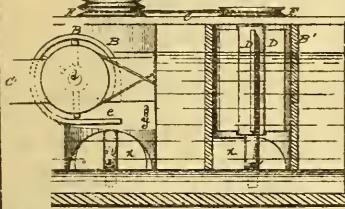
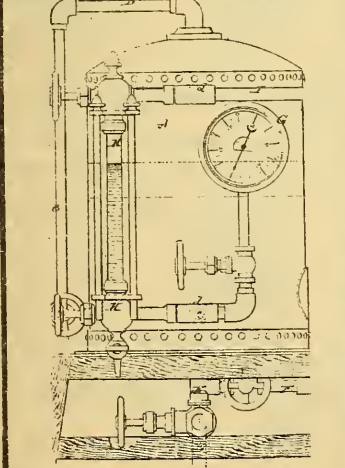
105,170, EDWARD CHADDERDON.
SUSPENSION GATE.105,158, CHAS. L. ALLEN, FAN-CASE FOR
GRAIN AND SEED-SEPARATORS.105,163, ALZIRUS BROWN.
HORSE HAY-RAKES105,171, DAVID HALLINOR,
LANTERNS.105,172, W. CHAMBERS
COTTON-BELT TIE.105,159, ALEX. G. ANDERSON.
MACHINE FOR DRESSING STONE105,166, J. C. BROWN.
LATHES FOR TURNING WOOD.105,173, A. B. CHAPMAN.
PRUNING SHEARS105,174, DANIEL CILLEY.
MULEY-SAW HANGINGS.105,160, RAMON ANTIGÜEDAD.
MANUFACTURE OF TOBACCO-PAPER

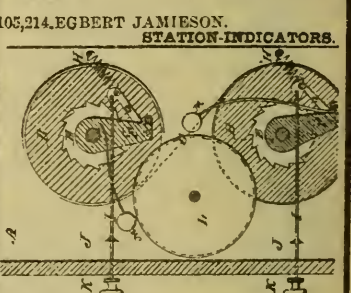
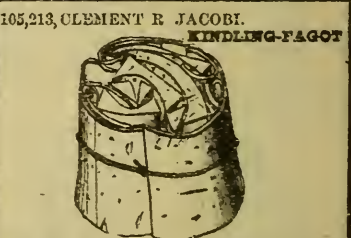
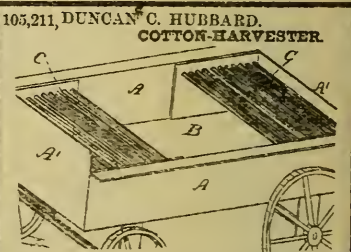
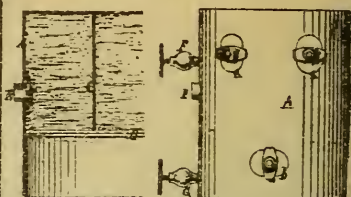
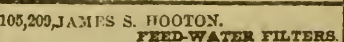
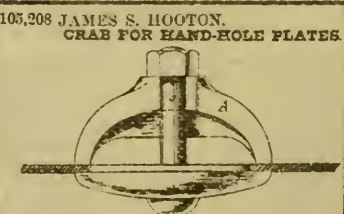
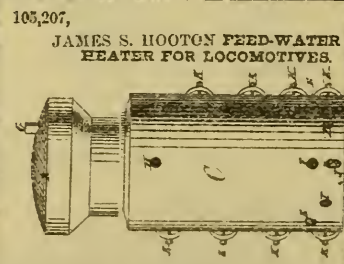
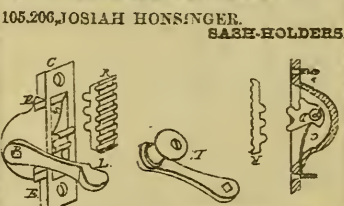
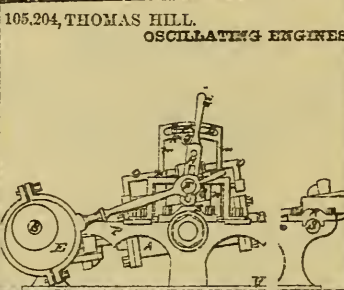
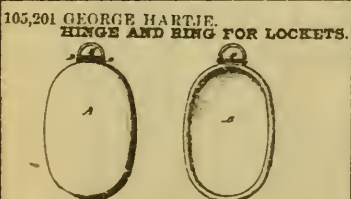
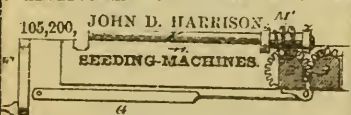
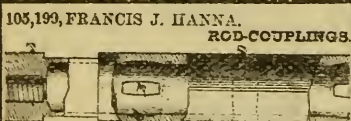
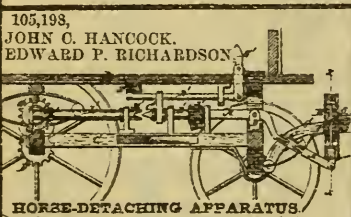
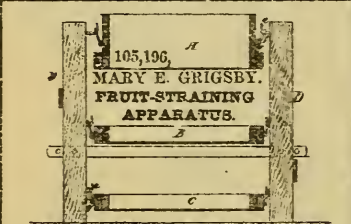
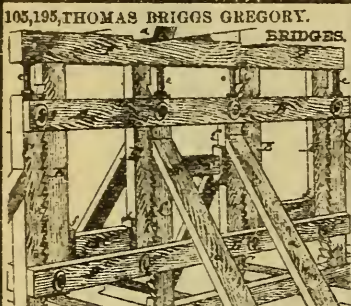
105,161, SAMUEL BABBITT, AWLS



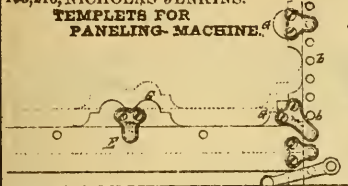
105,167, MICAJAH C. BURLEIGH, DAMPERS

105,162, ALLEN BAGLEY.
DOUBLE-ACTING FORCE-PUMPS105,168, LUCY J. BUTRILL.
MEDICAL COMPOUND.105,169, JOHN CAMPION.
APPARATUS FOR TANNING.105,175, EDWARD JAMES CODD.
COFFEE-POLISHER.105,162, JOSEPH BASTON.
WATER-WHEELS105,176, A. S. COLLINS.
SPAWNING-SCREEN.

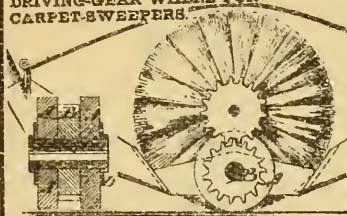
105,177, C. W. COPELAND.
SAFETY HOISTING APPARATUS.105,178, PETER S. CRAWFORD.
TEILL-COUPINGS.105,182, ISAAC A. DAVIS.
APPARATUS FOR SPONGING CLOTH.105,183, ABRAHAM DEUTSCHEL.
ICE-CUTTING MACHINE.105,184, ELIHU DOUD. MOWER AND
REAPER SICKLE-SHARPENER105,185, JASPER N. DRAKE.
SNOW-PLOW.105,186, WILLIAM G. DUNNIWAY,
HARRISON OSBURN.
MILLSTONE-DRESS.105,187, W. FRANZ AND W. POPE.
KNITTING MACHINE.105,188, JOSHUA W. FRAZEE.
BORING-MACHINE.105,189, P. N. GALLAHER.
ISAAC O. TATE. MACHINE FOR
MAKING HORSESHOE-NAILS105,190, JOSEPH P. GALLAGHER.
GAS-MACHINES105,191, WILLIAM R. GARDNER.
PESSARIES105,192, JOEL GLEASON.
SAD-IRON HANDLE.105,193, ISAIAH W. GRAFFAM.
WASHING-MACHINE.105,180, SAMUEL DARLING
PROCESS AND APPARATUS
FOR HARDENING FILES, &c.105,181, J. P. F. DATICHY.
INJECTORS FOR STEAM-BOILERS.



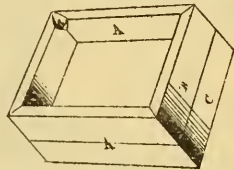
105,216, NICHOLAS JENKINS.
TEMPLERS FOR
PANELING-MACHINE.



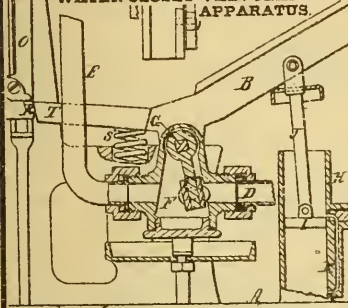
105,223, ALFRED J. KNIGHT.
DRIVING-GEAR WHEEL FOR
CARPET-SWEEPERS.



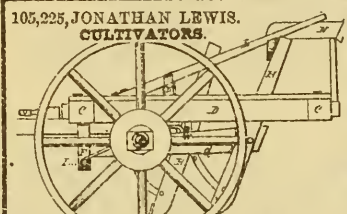
105,233, LUTHER V. MOULTON.
FRAME FOR SENSITIZING
PHOTOGRAPHIC PAPER.



105,217, JOHN KEANE.
WATER-CLOSET VALVULAR
APPARATUS.

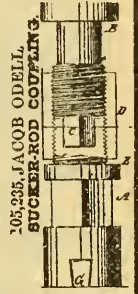


105,224, SAMUEL LAUGHTON
FEVER AND AGUE MEDICINE.



105,225, JONATHAN LEWIS.
CULTIVATORS.

105,234,
EMMA NORMAN
FIRE-PLACE GRATE.

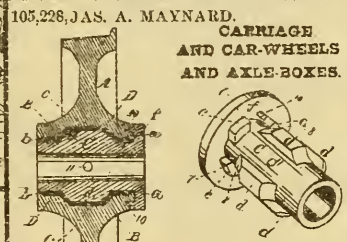


105,218, MATTHIAS KELLER.
KALEIDOSCOPES.



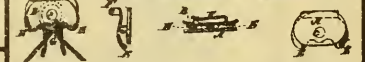
105,226, SCHUYLER W. MAHAN.
LEMON FRUIT SIRUP.

105,227
SCHUYLER W. MAHAN, RASPBERRY
AND STRAWBERRY FRUIT SIRUP

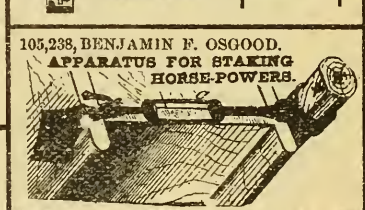


105,228, JAS. A. MAYNARD.
CARRIAGE
AND CAR-WHEELS
AND AXLE-BOXES.

105,236, CHARLES M. O'HARA.
SHOE-STRING FASTENING.



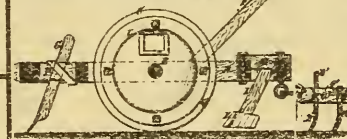
105,237,
MATHEW O'REARDON
PEN-RACKS.



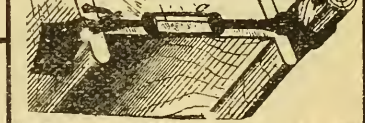
105,219, MICHAEL D. KELLY.
SOLDERING-KIT.



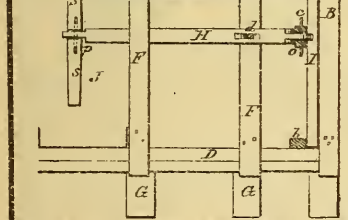
105,229, JONES K. MCCLURE.
COMBINED SEEDER, PLANTER,
CULTIVATOR, AND HARROW



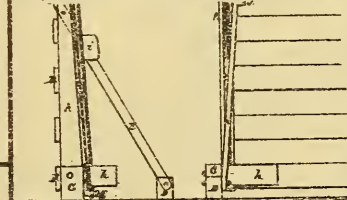
105,238, BENJAMIN F. OSGOOD.
APPARATUS FOR STAKING
HORSE-POWERS.



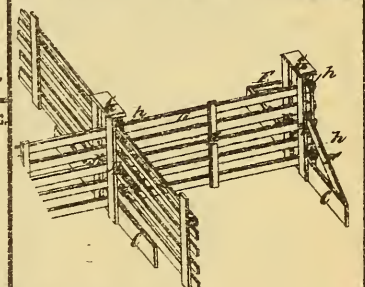
105,220, JACOB KEPLINGER.
AUTOMATIC SLUICE-GATE.



105,230, DANIEL J. MILLER, FLOOD-FENCE.



105,239, THOS. W. OWENS, FARM-FENCE.



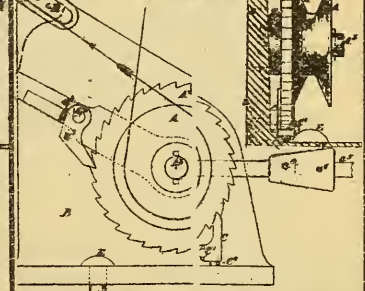
105,221, PETER KIDNEY.
FARM-FENCE.



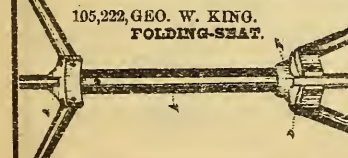
105,231, JACOB MILLER.
FENDER AND
WILLIAM H. B. FLENDER, FIRE-SCREEN



105,240, ARTHUR PAGET.
MACHINE FOR TIGHTENING
ROPE, &c

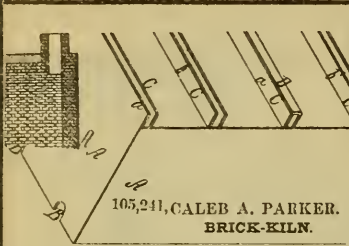


105,222, GEO. W. KING.
FOLDING-SEAT.



105,232, WILLIAM MILLER.
WEATHER-STRIP.

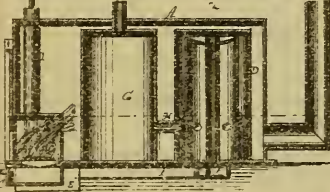




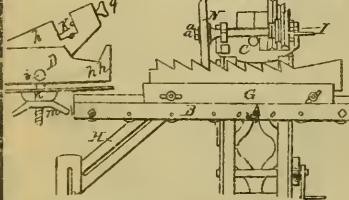
105,242, F. M. PATTERSON
H. P. MILLER.
HARNESS-MAKERS' EDGING-TOOL



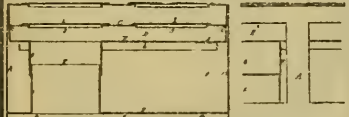
105,243, ROBERT PATTERSON.
STEAM-GENERATOR.



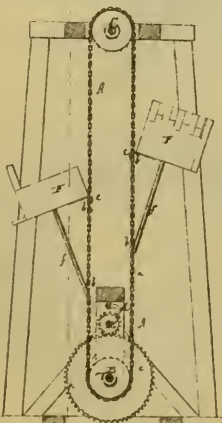
105,244, HARFORD J. PERKINS.
MACHINE FOR SHARPENING
THE TEETH OF SAWS.



105,245, E. PHILLIPS. SAD-IRON HEATER.

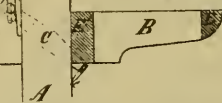


105,246, J. POWERS. HOD ELEVATOR.

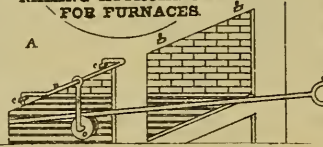


105,247, WM. PYLE.
THE MANUFACTURE OF LEATHER

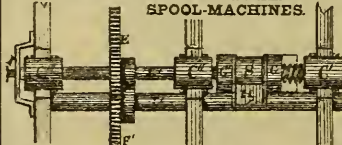
105,248,
ALFRED RAY.
BENJAMIN FRANKLIN MONSON
SCAFFOLDING.



105,249, JOHN RICE.
RAKING ATTACHMENT
FOR FURNACES.



105,250, JOHN F. C. RIDER.
EMERSON P. BROWNELL.
SPOOL-MACHINES.



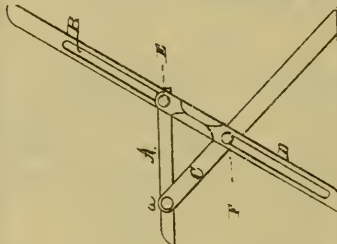
105,251,
SAMUEL D. ROBERTS.
MONTGOMERY DINGEE.
DUMB-HORSE
VELOCIPEDS.



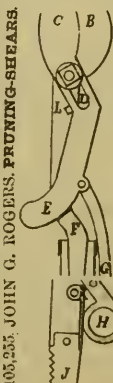
105,252, ORRIS W. ROBERTSON.
BATTERY-INSULATORS.



105,253, AUGUSTA M. RODGERS.
FOLDING CHAIR.



105,254, JOHN ROGERS.
LAWRENCE REID.
REFINING SUGAR.



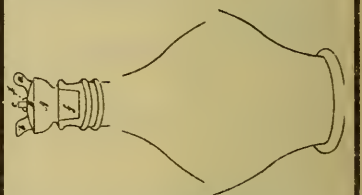
105,256, JAMES RYAN.
LAMP-CHIMNEY
CLEANER.



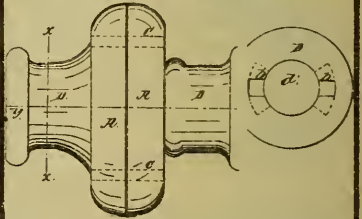
105,257, HENRY RYDER.
CANDLESTICK.



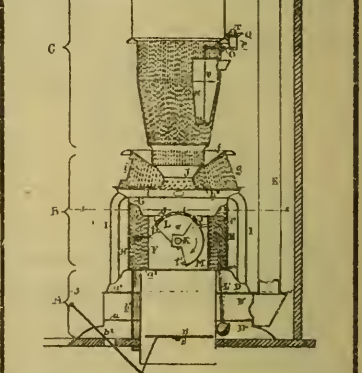
105,258, J. SCHAEFER.
GUSTAV SCHOCK.
FAUCETS.



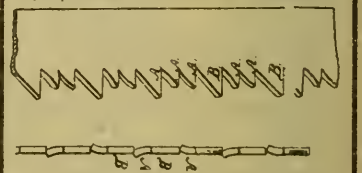
105,259, SILAS C. SCHOFIELD.
COUPLING FOR TUMBLING-SHAFTS.



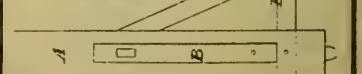
105,260, J. O. C. SEARLE.
RAILROAD-CAR STOVES.



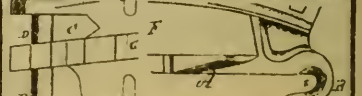
105,261, SIMON W. SHALER. SAWS.

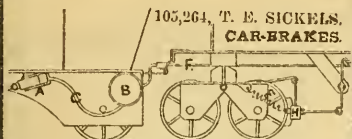


105,262, SCHUYLER G. SHANKS.
CHURNS.

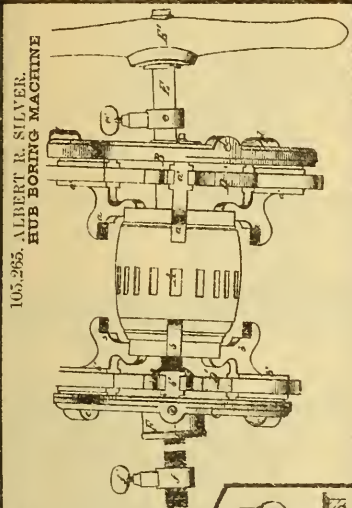
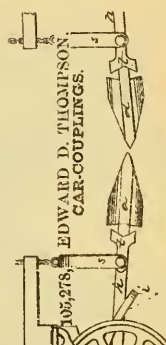
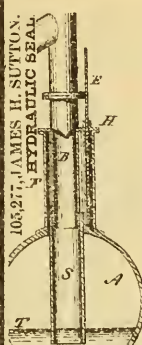
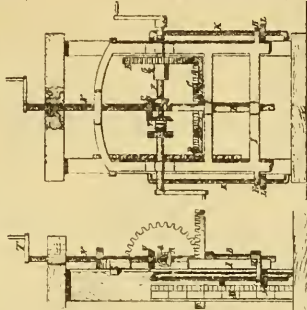


105,263, G. L. SHELDON.
ENDLESS-CHAIN HORSE-POWER LINK.

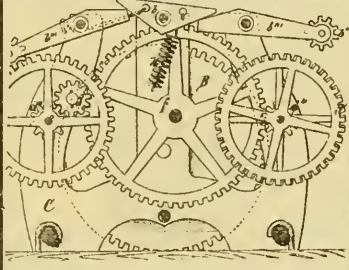




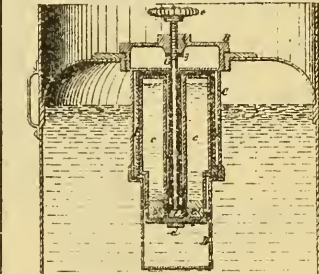
105,271, T. E. STANLEY. BORING-TOOL.



105,272, GEO. M. STERNBERG. ELECTRO-MAGNETIC APPARATUS FOR REGULATING VALVES AND DAMPERS.



105,279, JACOB BRILL VAN DYNE. FIRE-EXTINGUISHERS.



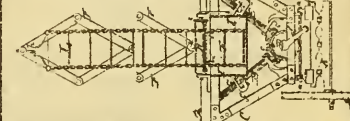
105,266, ALFRED E. SMITH. CARRIAGE-AXLES.



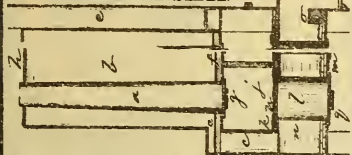
105,273, GEO. M. STERNBERG. ELECTRICAL THERMOSTATS.



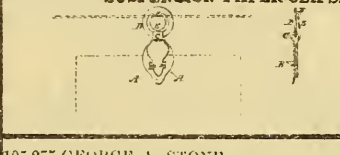
105,280, LORENZ WAHLE. FIRE-ESCAPES.



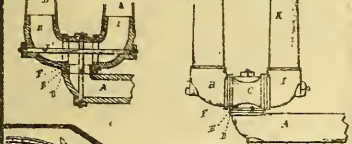
105,267, GEORGE FLAND SMITH. THE MANUFACTURE OF IRON AND STEEL.



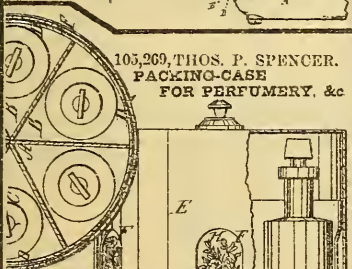
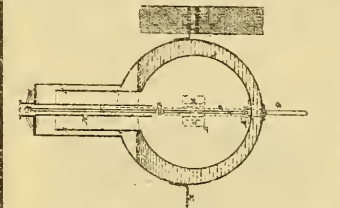
105,274, WILLIAM STOKES. SUSPENSION PAPER-CLIPS.



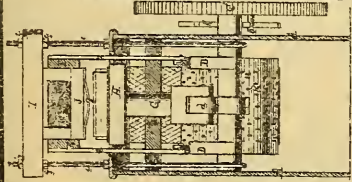
105,268, HIRAM SMITH. PIPE-JOINTS.



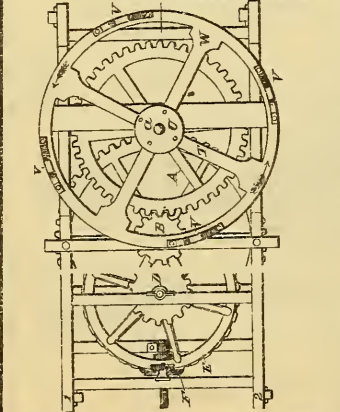
105,275, GEORGE A. STONE. STEAM-GENERATORS.



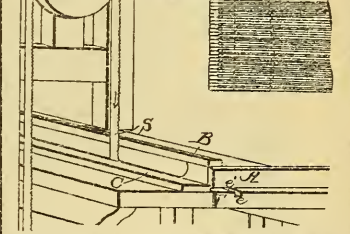
105,270, ANDREW J. SPRAGUE. BRICK-REPRESSING MACHINE.



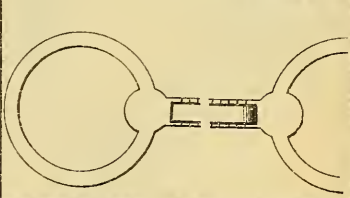
105,276, SOLOMON STONER. HORSE-POWERS.



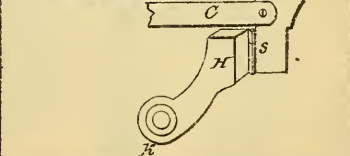
105,281, LORENZO D. WEBBER. SAWING-MACHINE.

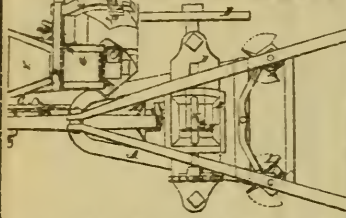
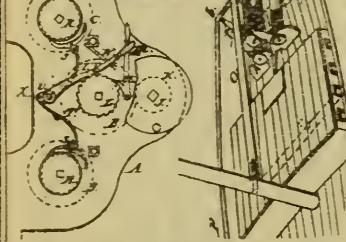


105,282, BENJAMIN F. WHEELER. BRIDLE-BITS.

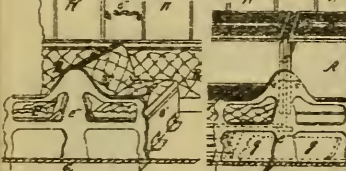
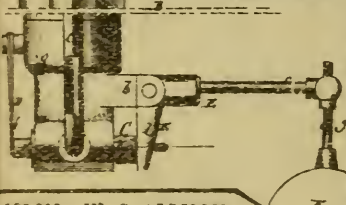
105,283, EXUM ^{his} WHITLEY. ^{mark.} THE MANUFACTURE OF FERTILIZERS.

105,284, ORISON O. WHITNEY. KNEE-LEVER FOR MELODEON OR ORGAN-SWELL.



105,285. CAMDEN L. WILCOX. COMBINED
CULTIVATOR AND CORN-DRILL.105,286. JAMES M. WISE. MECHANISM
FOR OPERATING BOOMS
OF VESSELS.105,287. THOMAS H. WOOD. FOLDING
CARRIAGE-TOP.

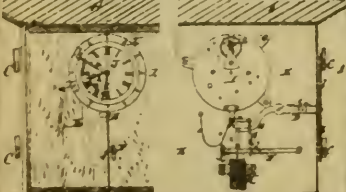
105,288. JONAH WOODRUFF. SLEEPING-CARS.

105,289. WILLIAM WYATT. WATER-REGULATOR
AND ALARM.

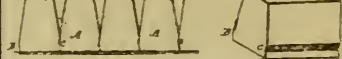
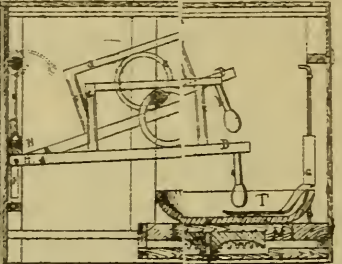
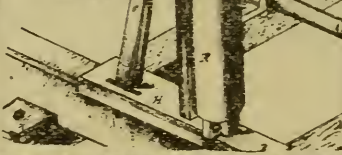
105,290. W. C. ALLISON. PIPE COUPLING.



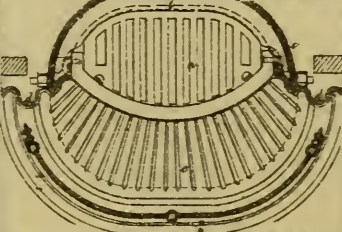
105,291. CORYDON F. ATWOOD. TIME-LOCKS.



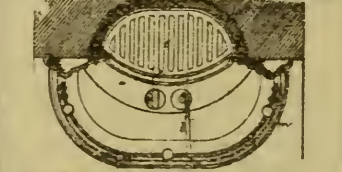
105,292. W. W. BALLARD. WOOD PAVEMENT.

105,293. JACOB H. SMITH. DOUGH-KNEADER.
JOHN H. BARR.105,294. E. W. BUCKETT. CIRCULAR-SAW
MILLS.

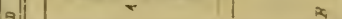
105,295. SAMUEL S. BENT. GRATE-FENDER.

105,296. SAMUEL S. BENT. BACK FOR
FIRE-PLACE GRATE.

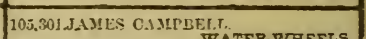
105,297. SAMUEL S. BENT. FIRE-PLACE GRATE.

105,298. IRA HICKNELL. MODE OF SECURING
CARRIAGE-WHEELS ON THEIR AXLES.

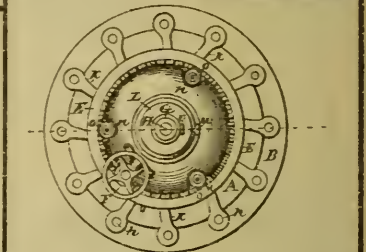
105,299. GEORGE W. BISHOP. SASH-HOLDERS.



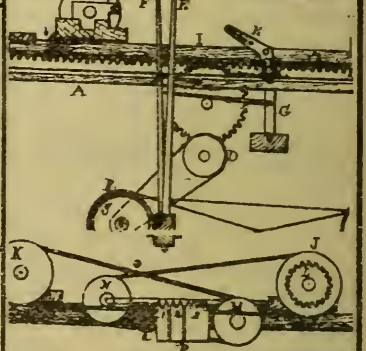
105,300. DAVID W. BOWDOIN. ELASTIC TRANSFER PRINTING.



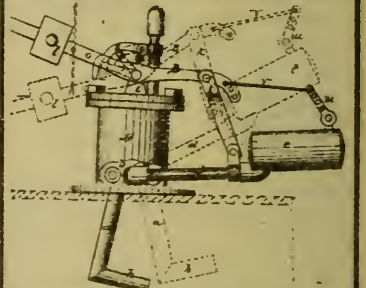
105,301. JAMES CAMPBELL. WATER-WHEELS.



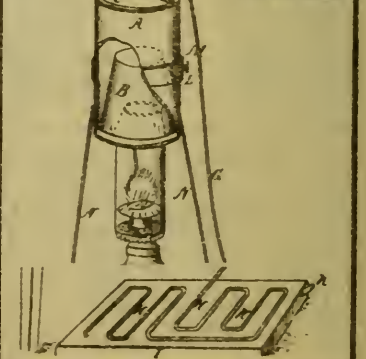
105,302. MARTIN P. CAMPBELL. SAW-MILLS.



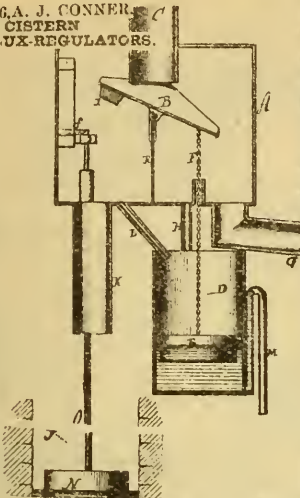
105,303. JOHN WESLEY CHERRY. FENCE.

105,304. ALFRED D. CLARK. AUTOMATIC FEEDER
AND INDICATOR FOR STEAM-BOILERS.

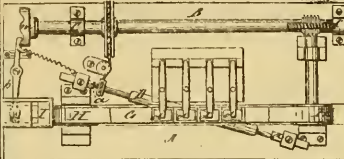
105,305. JOHN E. CONE. GAS-HEATER.



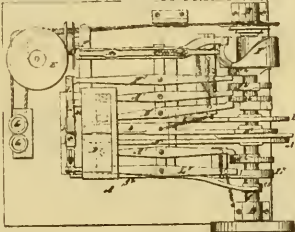
105,306, A. J. CONNER.
CISTERN
INFLUX-REGULATORS.



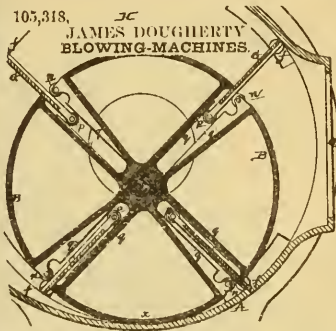
105,312, C. O. CROSBY. MACHINES FOR
POLISHING NEEDLES.



105,313, C. O. CROSBY.
MACHINES FOR PAPERING NEEDLES.



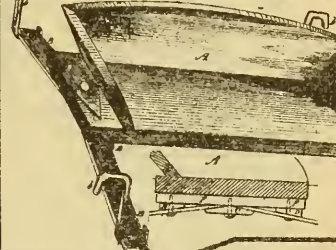
105,318, J. C.
JAMES DOUGHERTY
BLOWING-MACHINES.



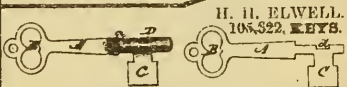
105,319, ALFRED DUVAL.
TREATING VITRIOLIZED PHOSPHATES.

105,320, A. K. EATON.
THE MANUFACTURE OF TOOLS FOR
CUTTING, GRINDING, AND POLISHING.

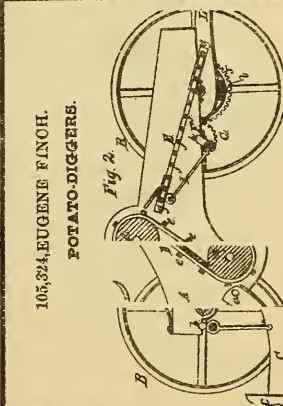
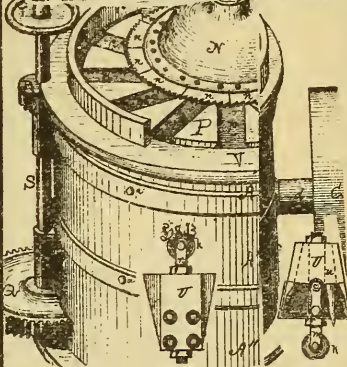
105,321, WILLIAM H. ELLIOTT.
SEAT FOR VEHICLES.



H. H. BLWELL.
105,322, KEYS.

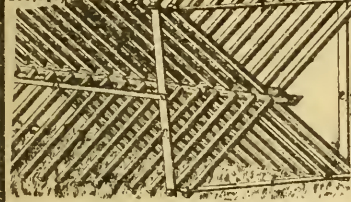


105,323, JEROME FASSLER.
MACHINES FOR SAWING THE SLOT
IN HARVESTER GUARD-FINGERS.

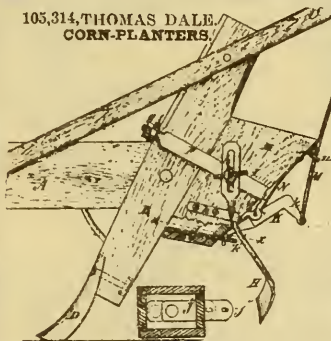


105,324, EUGENE FINCH.
POTATO-DIGGERS.

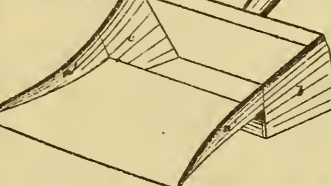
105,307, S. PARK COON. FENCE.



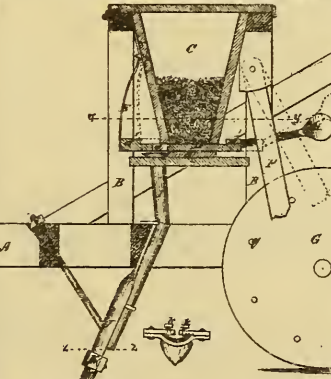
105,314, THOMAS DALE
CORN-PLANTERS.



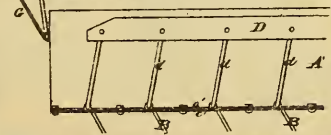
105,315, FRANCIS L. DANIELS.
DUST-PAN.



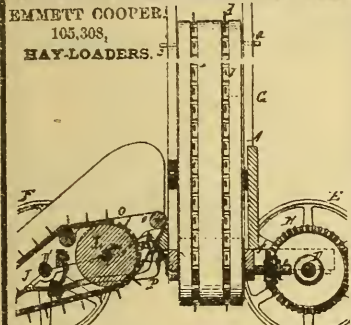
105,316, J. ADDISON DAVIS.
CORN-PLANTERS.



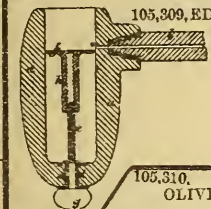
105,317, LON HEN DEE
ASH-PAN FOR LOCOMOTIVES.



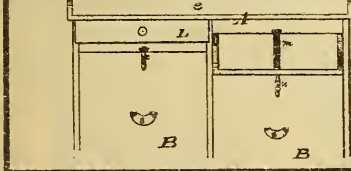
EMMETT COOPER.
105,308,
HAY-LOADERS.



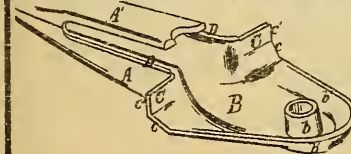
105,309, EDWARD COTTAM.
SMOKING-PIPE.

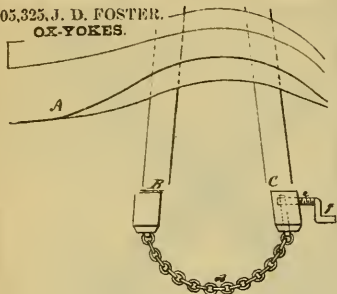
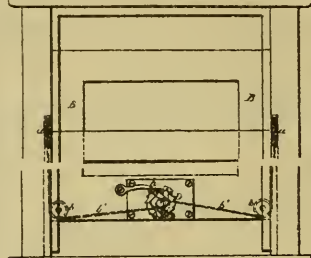
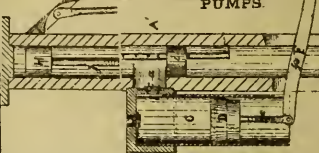
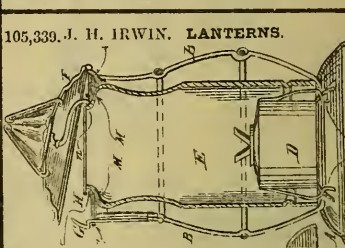


105,310, OLIVER R. COWGILL.
RESERVATORY
FOR GROCERIES, &c

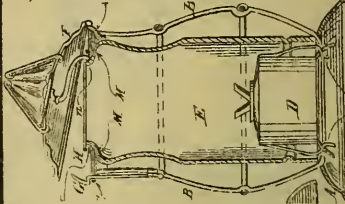
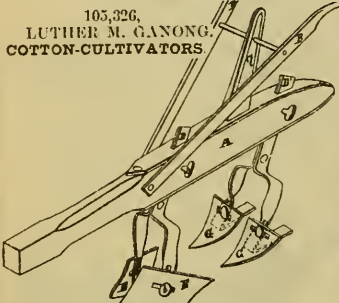
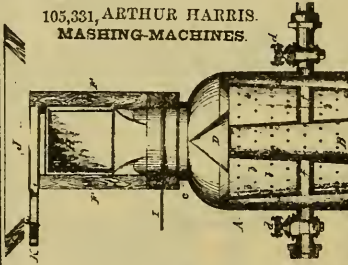
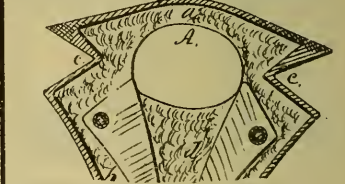
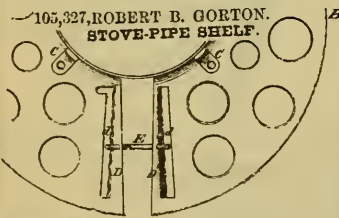
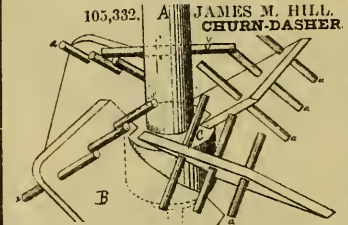
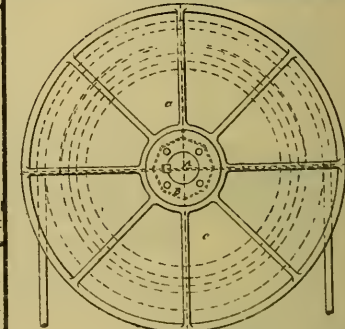
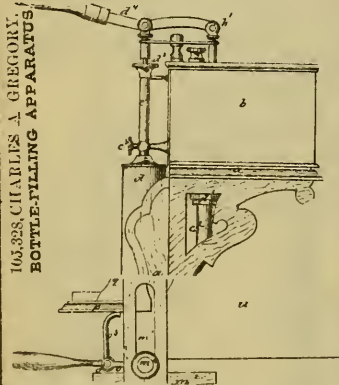
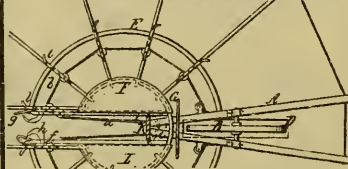
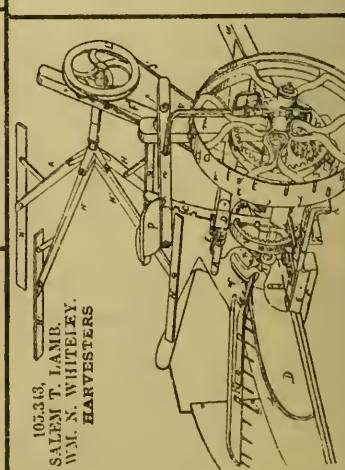
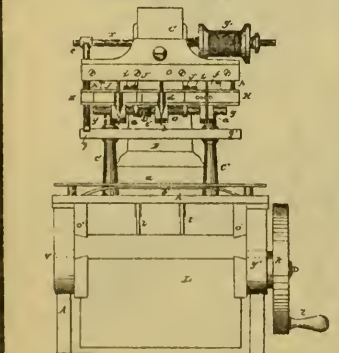
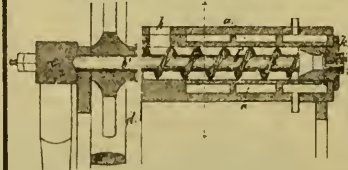


105,311, ADDISON CROSBY.
GUARD-FINGERS FOR HARVESTERS.

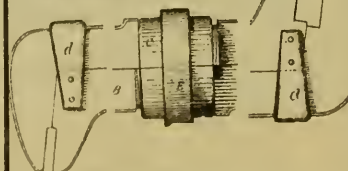


105,325, J. D. FOSTER.
OX-YOKES.105,330, J. C. M. HAMILTON.
SASH-BALANCES105,337, JAMES L. HURLBUTT.
PUMPS.105,338.
J. W. HYATT, JR., AND I. S. HYATT.
TREATING AND MOLDING PYROXYLINE

105,339, J. H. IRWIN. LANTERNS.

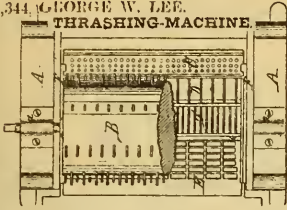
105,326,
LUTHER M. GANONG.
COTTON-CULTIVATORS.105,331, ARTHUR HARRIS.
MASHING-MACHINES.105,340, JOHN H. KAPPELHOFF.
SAMUEL BAUM. FUR COLLARS.105,327, ROBERT B. GORTON.
STOVE-PIPE SHELF.105,332, JAMES M. HILL.
CHURN-DASHER.105,341, WM. KELSEY.
DOUBLE-GRIPPING FLANGED DRUMS,
PULLEYS, AND WHEELS.105,328, CHARLES A. GREGORY.
BOTTLE-FILLING APPARATUS.105,333, MARSENA M. HOOTON.
APPARATUS FOR
CATCHING CURCULIOS.105,334, W. A. HOPKINS.
REVERSIBLE
KNOB-LATCHES.105,342, JOHN KNAPP.
PRESERVING EGGS105,329, LUTHER HALL. MACHINE FOR
SEWING BOOKS.105,335, BURRITT M. HITCHKISS.
MACHINES FOR MAKING TUBES
AND STRIPS OF INDIA RUBBER.

105,336, JAMES J. HULL. WRENCHES.

105,343,
SALEM T. LAMB.
WM. N. WHITELEY.
HARVESTERS

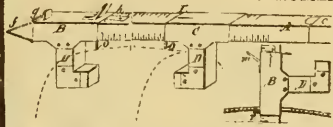
105,344, GEORGE W. LEE.

THRASHING-MACHINE.



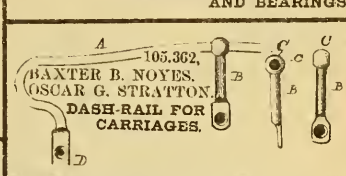
105,352, E. R. McKEAN.

CASK-GAUGING INSTRUMENT.



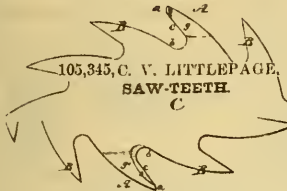
105,361, ELIZA DEXTER MURPHY.

MATERIAL FOR PACKINGS AND BEARINGS.



105,345, C. V. LITTLEPAGE.

SAW-TEETH.

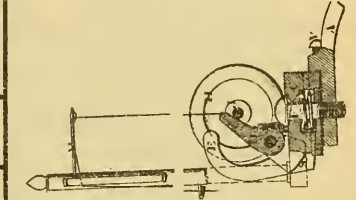
105,353, DAVID MEAD.
EZRA W. WATSON.

PEGGING-JACKS.



105,363, CHARLES H. PALMER.

ROBBIN-WINDERS FOR SEWING-MACHINES.



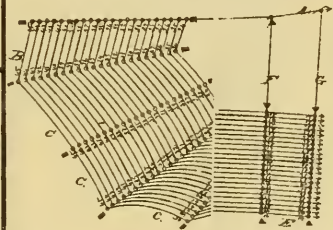
105,346, WM. W. LYMAN.

CAN-OPENERS.



105,355, JONATHAN J. MILLER.

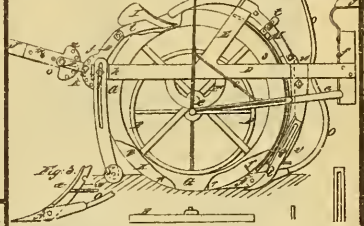
APPLYING MEASUREMENTS TO AND LAYING OUT GARMENTS.



105,364

JOSEPH A. PARSONS.

DITCHING-MACHINE.



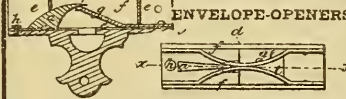
105,347, EDWARD B. MANNING.

COFFEE-BOILER.



105,356, L. A. MILLER.

ENVELOPE-OPENERS.



105,348, EDWIN MARTIN.

METALLIC CARTRIDGES.

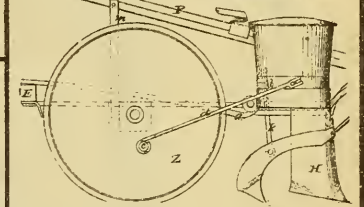
105,357, JOHN MINER.
SILAS MERRICK.

RAILWAY SPLICE AND NUT-LOCK.

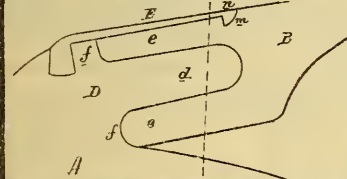


105,365, JAMES M. PIPER.

CORN-PLANTER.

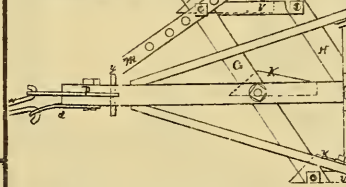


105,349, GOTTLIEB MAULICK. SAWS.



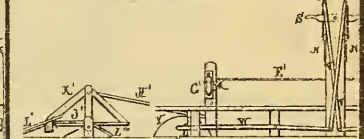
105,358, JOSEPH B. MOODY.

CULTIVATORS.

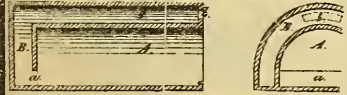


105,366, JOHN POOL.

FARM-GATES.

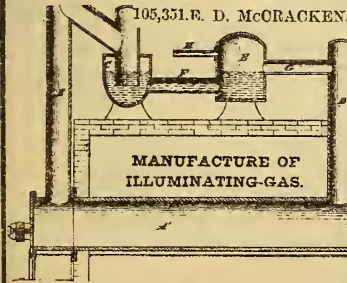


105,350, E. D. McCracken. GAS-RETORTS.



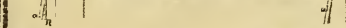
105,351, E. D. McCracken.

MANUFACTURE OF ILLUMINATING-GAS.



105,359, GEORGE MORGAN.

STONE-SAWING MACHINE.



105,360

WILLIAM MORGENSTERN.

FAUCETS.



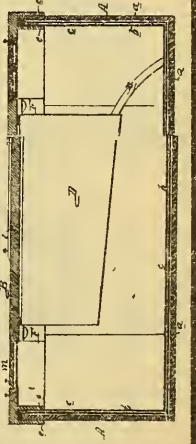
105,367, FITCH RAYMOND.

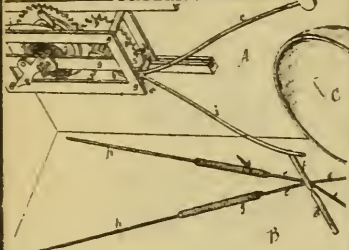
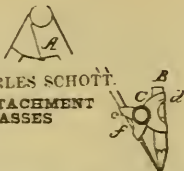
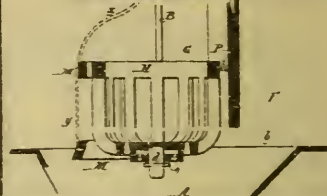
GRAIN-BINS.



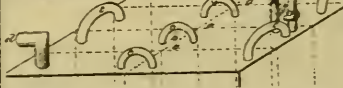
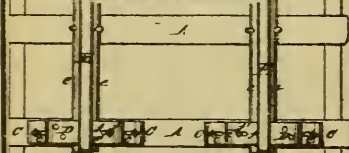
105,368, ALFRED GRAHAM REED.

CORPSE-PRESERVING CASES.

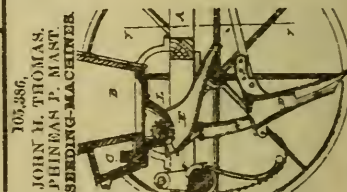
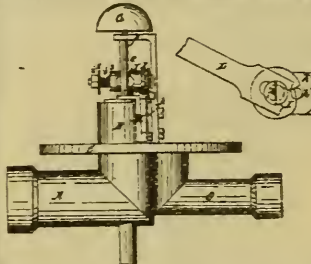
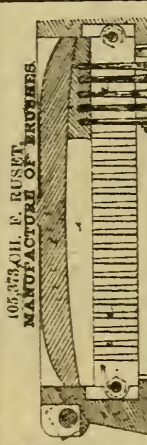
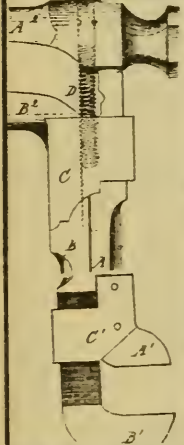
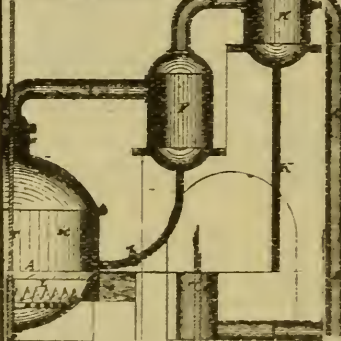
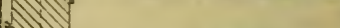
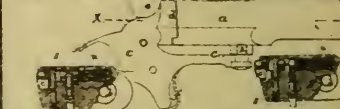
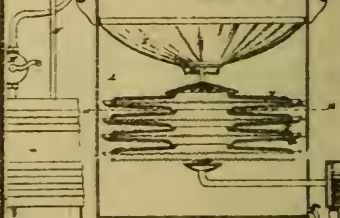


105,369 WILLIAM REYNOLDS.
BURGLAR-ALARMS.105,376 CHARLES SCHOTT.
PENCIL ATTACHMENT
FOR COMPASSES105,384 WILLIAM TEAMER.
STOVE-GRATES.105,370 EDWARD RHODES.
RECIPROCATING SAW-MILLS

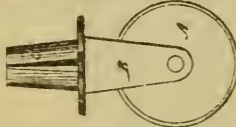
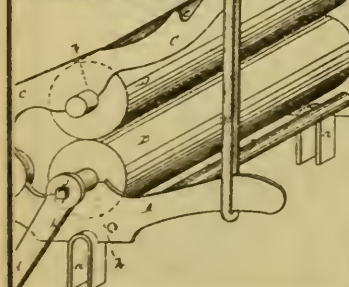
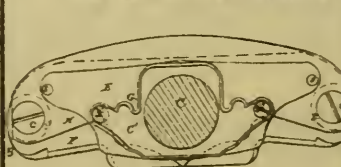
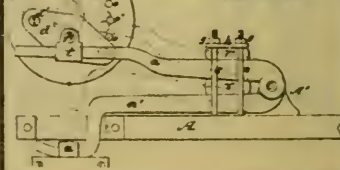
105,377 ISAAC C. SHULER. COFFINS

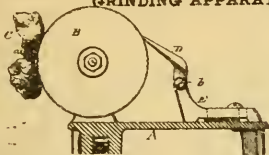
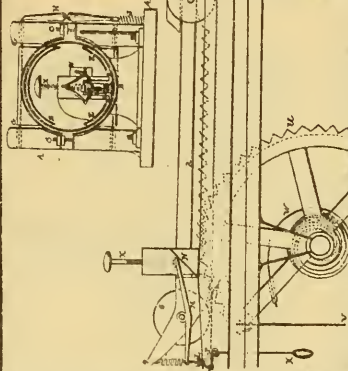
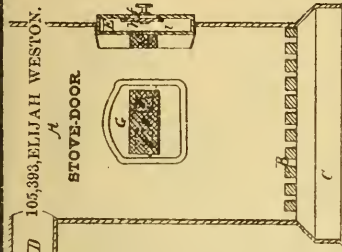
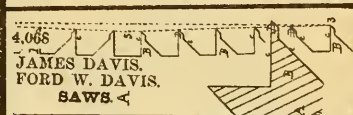
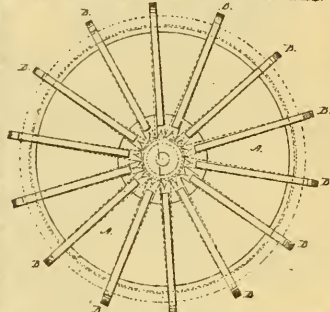
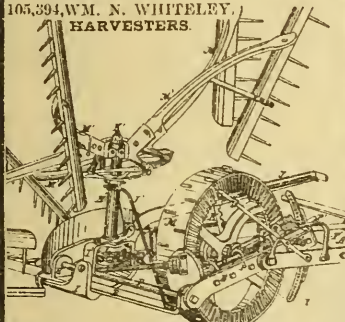
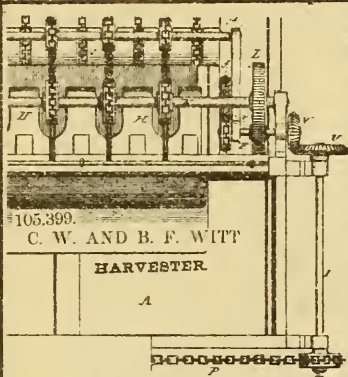
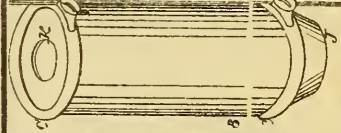
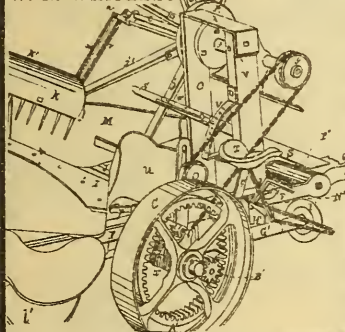
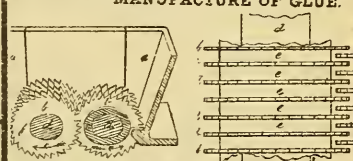
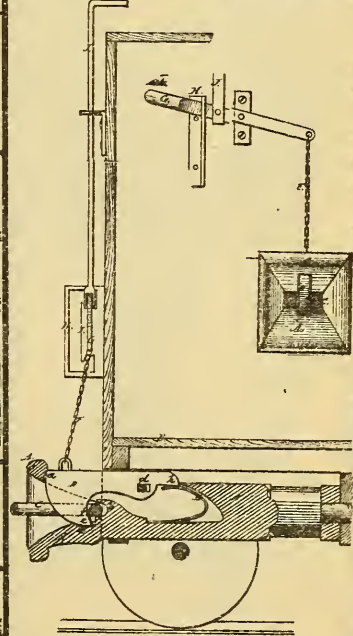
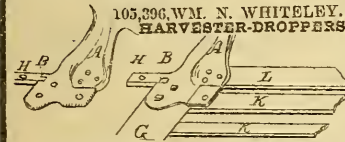
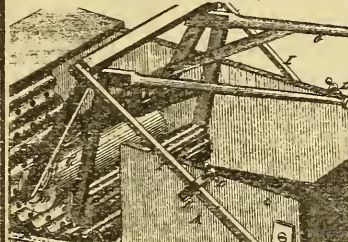
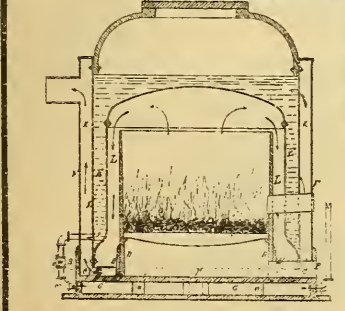
105,378 WARREN A. SIMONDS.
CARBURETING APPARATUS.105,385 GEORGE X THOMAS.
W W McLANAHAN.
DOUBLE-TWEER
FORGE-FIRES.105,371 STEPHEN M. RICHARDS.
RAILWAY-TRACKS.

105,379 J. P. SMITH. LIQUID-METERS.

105,386 JOHN H. THOMAS.
PHINEAS P. MAST.
SEEDING-MACHINE.105,372 J. F. RONAN, JR.
WRENCH105,373 CHAS. E. RUSSET.
MANUFACTURER OF WRENCHESWM. SMITH.
105,380 H. D. ROGERS. METHOD OF
PRODUCING PRICE-CURRENT SHEETS.105,381 THOMAS STEERS, JR.
APPARATUS FOR DISTILLING
AND EVAPORATING
EXTRACTS.
SA-LINE SOLUTIONS, &c.105,387 JOHN H. THOMAS.
PHINEAS P. MAST.
SECURING DRILL AND
CULTIVATOR-TEETHF. ALEXANDER THUER.
105,388 BREACH-LOADING FIRE-ARMS.105,389 D. C. TURNER.
SEEDING-MACHINES.105,390 REUBEN D. TURNER.
MANUFACTURE OF VINEGAR
AND ACIDIFYING
LIQUIDS.

105,374 J. B. SARGENT. FURNITURE-CASTERS.

105,375 LOUIS SHMETZER.
CLOTHES-WRINGER105,382 EDWIN B. STIMPSON. PRESSES
FOR PERFORATING SHOE-TIPS.105,383 WILLIAM STREETER.
PERMUTATION LOCKS105,391 GEO. J. WARDWELL.
STONE-CHANNELING
MACHINE

105,392, WILLIAM L. WASHBURN.
GRINDING APPARATUS.105,398, WM. A. WICKS. MACHINE
FOR SEAMING SHEET-METAL CANS4,067, WM. COFFIN. PROCESS OF
EXTRACTING FATTY SUBSTANCES.4,069, WILLIAM FIELDS.
MANUFACTURE OF STEEL4,070, HENRY KILLAM. MACHINE FOR
COMPRESSING CARRIAGE-WHEELS.105,394, WM. N. WHITELEY.
HARVESTERS.105,399.
C. W. AND B. F. WITT
HARVESTER4,071, CHARLES B. MOREHOUSE.
WHIP-SOCKETS.105,395
W. N. WHITELEY. HARVESTER.103,400, HERMANN WOLFF.
SHUTTER-WORKERS.4,072, E. GODDARD.
MANUFACTURE OF GLUE.105,401 HENRY M. WYETH.
PUMPS.4,073, MANUEL VAN SLYKE.
D. W. WOOD. CAR-COUPLING.105,396, WM. N. WHITELEY.
HARVESTER-DROPPERS.105,402, NATHANIEL JONES.
TUCK-MARKER FOR
SEWING-MACHINE.105,403. W. VANSCHOYOC
WASHING MACHINE.4,065.
LOUIS BLACK.
SPECTACLES.4,066, GEO. W. CHIPMAN.
CARPET-LINING.105,397 DANIEL WHITLOCK.
FEED-WATER HEATERS
FOR STEAM-BOILERS.

ILLUSTRATIONS OF PATENTS

ISSUED FROM

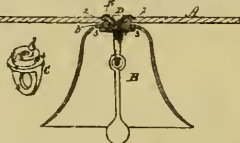
THE UNITED STATES PATENT OFFICE

JULY 19, 1870.

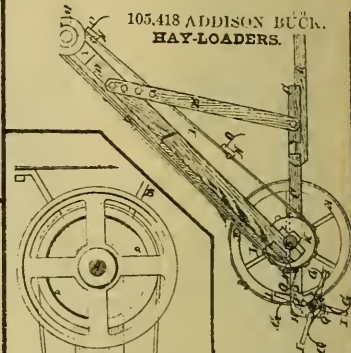
105,404,
J. P. ABBOTT.
EAVES-TROUGH HANGER.



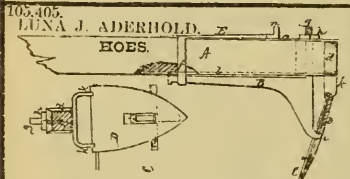
105,412, W. E. BARTON.
MODE OF ATTACHING SLEIGH-BELLS.



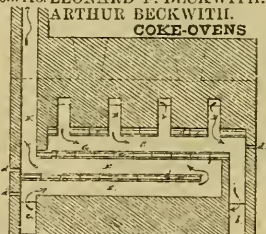
105,418 ADDISON BUCK.
HAY-LOADERS.



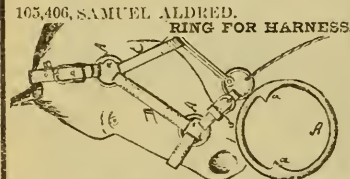
105,405,
LUNA J. ADERHOLD.
HOES.



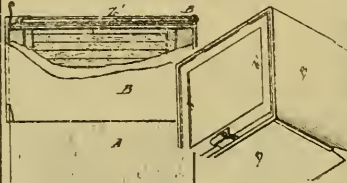
105,413, LEONARD F. BECKWITH.
ARTHUR BECKWITH.
COKE-OVENS.



105,406, SAMUEL ALDRED.
RING FOR HARNESS.



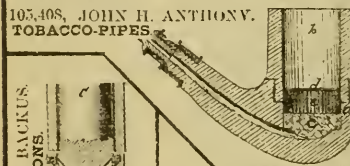
105,414, ADOLPH BERNSTEIN.
TOBACCO-BOX SHOW-CASE.



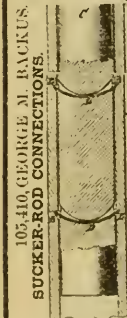
105,407, RICHARD N. ALLEN.
CAR-COUPLING.



105,408, JOHN H. ANTHONY.
TOBACCO-PIPES.



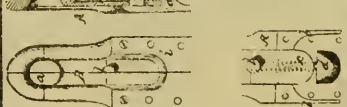
105,410, GEORGE M. RACKUS.
SUCKER-ROD CONNECTIONS.



105,409, S. D. ARNOLD.
SHUTTER-FASTENING.



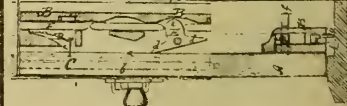
105,415, CHARLES W. BLAKESLEE.
TRACE-FASTENING.



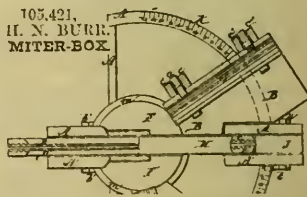
105,416, GUSTAVUS B. BROAD.
SHAWL-STRAPS.



105,420, WILLIAM HENRY BURGHARDT.
WEATHER-STRIPS.



105,421,
H. N. BURR.
MITER-BOX.



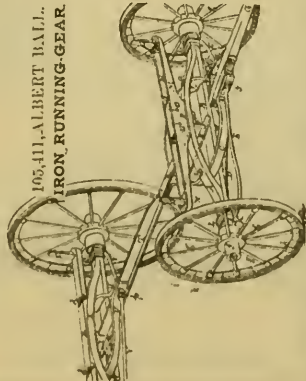
105,422, RALPH R. CARPENTER.
LOW-WATER INDICATORS.



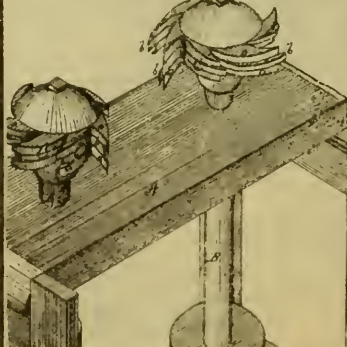
105,423, A. P. CASEY.
METHOD OF FORMING
STUMP JOINTS FOR CARRIAGE-BOWS.



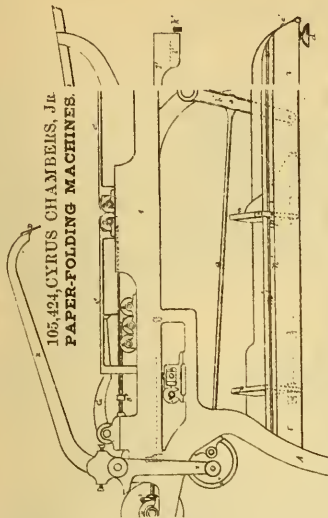
105,411, ALBERT BALL.
IRON RUNNING-GEAR.



105,417, CALER BOBEST.
CUTTERS FOR
TONGUING AND GROOVING.



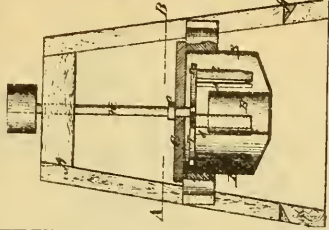
105,424, CYRUS CHAMBERS, JR.
PAPER-FOLDING MACHINES.



105,430.

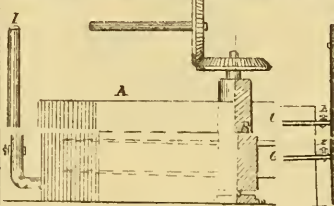
EDEN M. COOMBS.

HOMINY-MILLS.



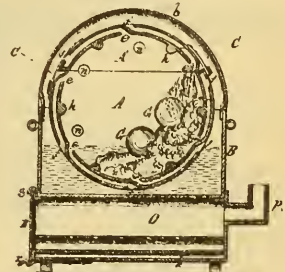
105,431, JAMES CUDDY.

THE MANUFACTURE OF WHITE LEAD.



105,439, SAMUEL DE VEAU.

WASHING-MACHINE.



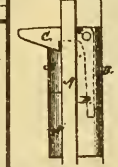
105,440, MOSES W. DILLINGHAM.

PENCIL-SHARPENERS.



105,441, ADOLF ECCARD.

HINGES
FOR BLINDS.



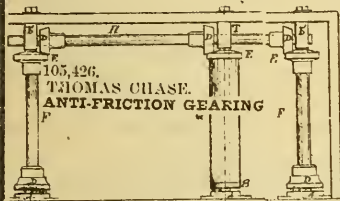
105,442.

H. GODFREY EMERY.
M. C. FULLER.
COLLARS.



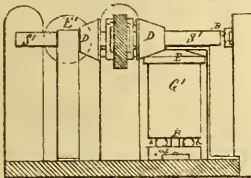
105,425, H. A. CHASE.

MEDICAL COMPOUND
FOR TREATING RHEUMATISM &c.



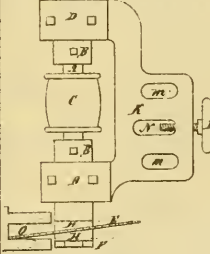
105,426.

THOMAS CHASE.
ANTI-FRICTION GEARING



105,432

JOHN J. CURNAN.
TENONING-MACHINE.



105,433, CHARLES R. S. CURTIS.
NEEDLE FOR SEWING-MACHINE.



105,434, HORACE L. DAVIS.

ROOFING-COMPOSITION.



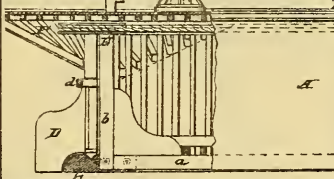
105,435, CHARLES DEAYS.

DROP-LIGHT GASALIERS.

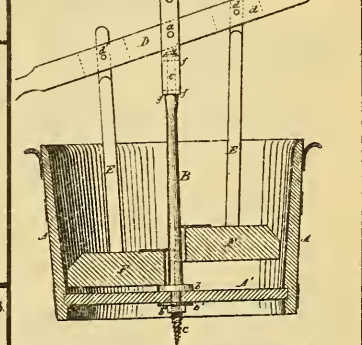


105,436, DAVID DE HAVEN.

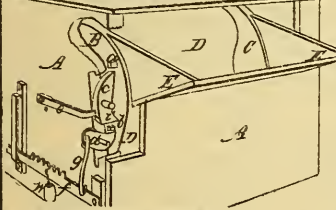
STEERING APPARATUS.



105,444, MARTIN P. FLANDERS.
WASHING-MACHINE.



105,427, FRANCIS G. CHESMAN
GRAIN-METERS.



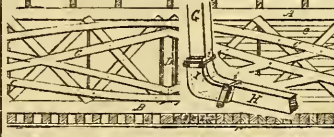
105,428, WILLIAM CHILLS.

PACKING TOBACCO-BOX



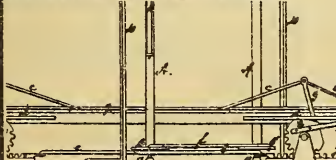
105,437.

DAVID DE HAVEN. HULLS OF VESSELS



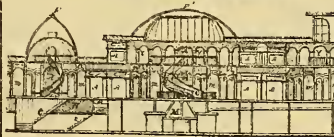
105,429, JOHN H. CLARK.

GATES FOR RAILWAY CROSSINGS.



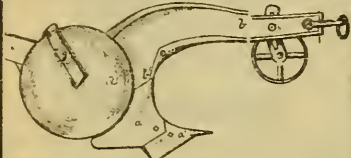
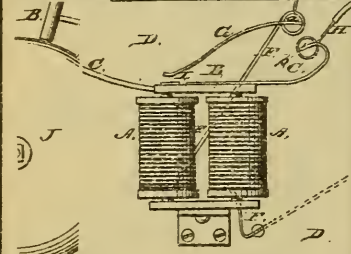
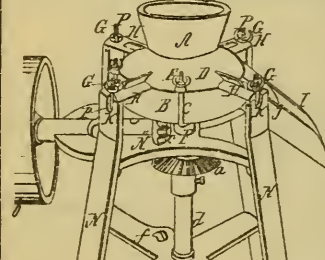
105,438, DAVID DE HAVEN.

ARRANGEMENT OF UPPER WORKS
IN RIVER STEAMERS.

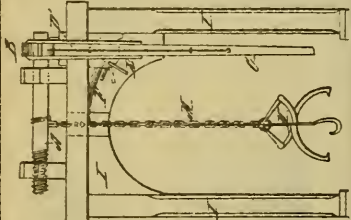
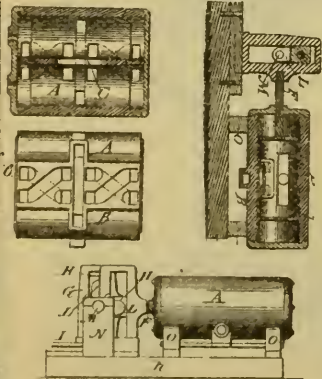
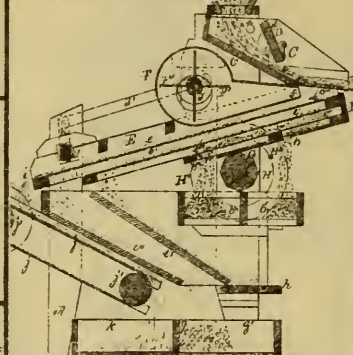


105,445, WALTER C. GIFFORD.
SWINGING STANCHIONS.

105,446, JOSEPH S. GODFREY. FLOWS.

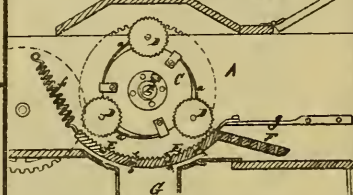
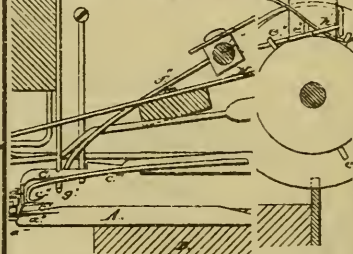
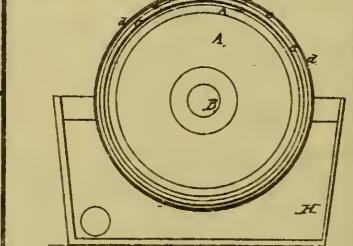
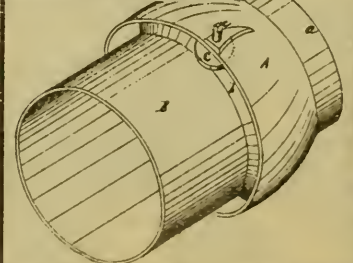
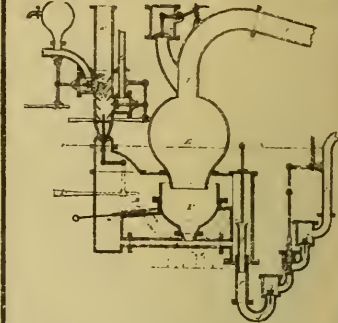
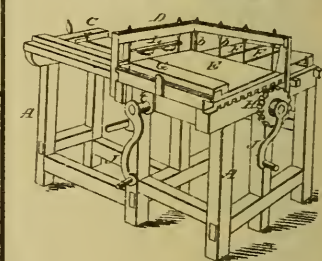
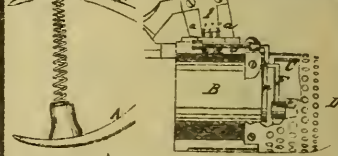
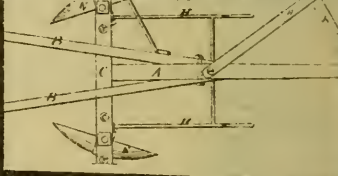
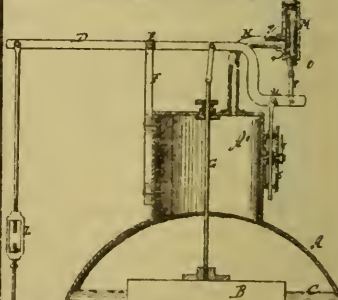
105,447, THOMAS S. HALL.
ELECTRO-MAGNETIC ALARMS.105,448, DANIEL HALLADAY.
GRINDING-MILLS.

105,449, DAVID D. HANSON. ELEVATOR.

105,450, JAMES HARRIS.
HYDRAULIC MOTORS.105,451, REASON HAWKINS.
GRAIN AND
SEED-SEPARATORS.

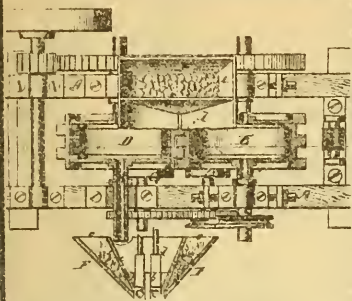
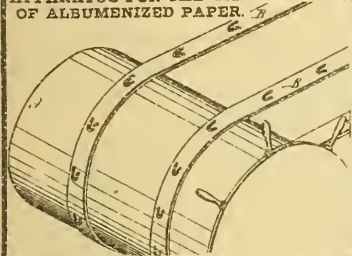
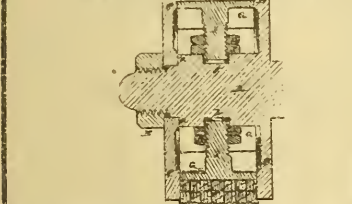
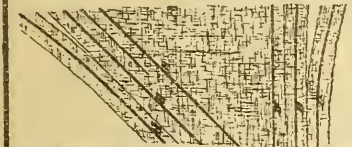
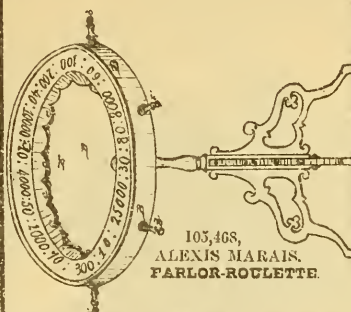
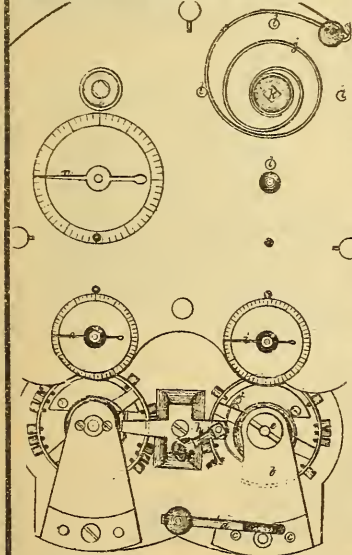
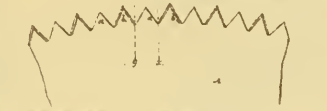
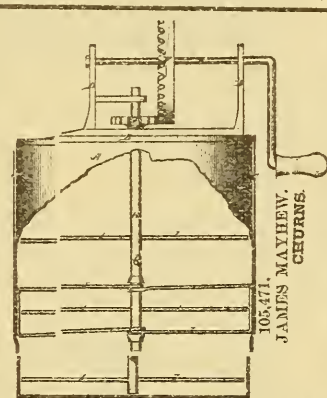
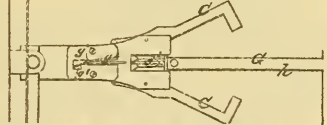
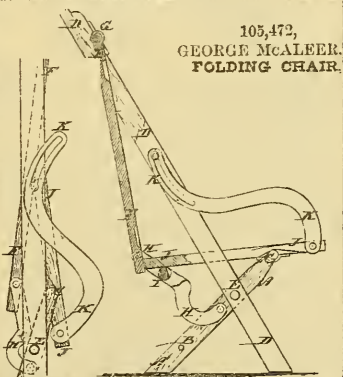
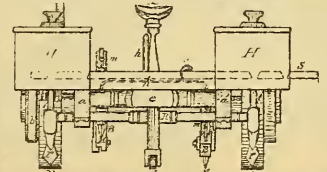
105,452, ARTHUR P. HAZARD

SHOEMAKERS' EDGE-PLANE.

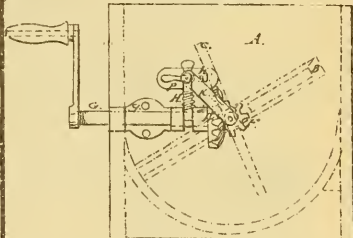
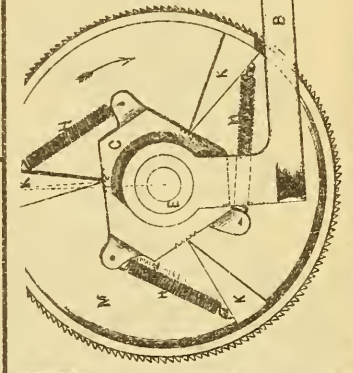
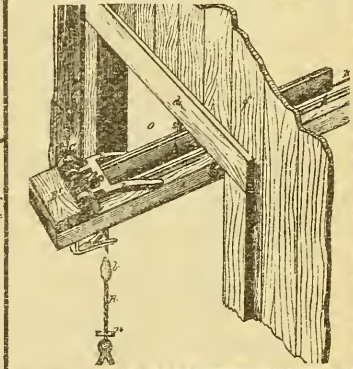
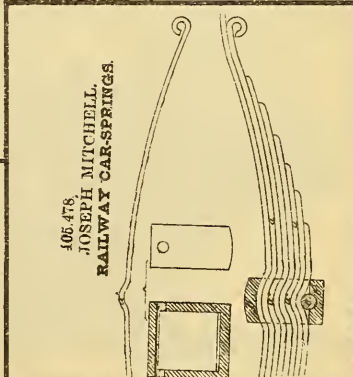
105,453, BENJAMIN HOCKABOUT
WASHING-MACHINE.105,454, JOSEPH HOLLEN.
KNITTING-MACHINES.105,455, JOHN HOLT.
PRESS-DYEING.105,456, RICHARD HOSKIN.
PIPE-COUPPLINGS.105,457, JOHN HOUT.
CONDENSER FOR MARINE ENGINES.105,458, WILLIS HUMISTON.
HORACE N. HUMISTON.
SOAP-CUTTING MACHINE.105,459, ISAAC HYDE.
ALARM TICKET-NIPPERS FOR COUPON
TICKETS.105,460, MOSES JOHNSON.
CULTIVATOR.105,461, G. N. JONES. HIGH AND
LOW-WATER ALARM.

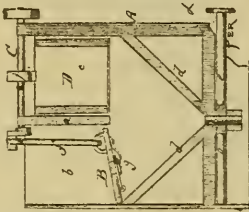
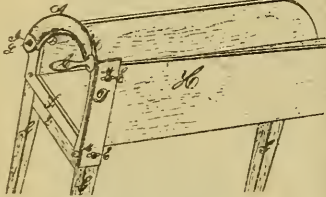
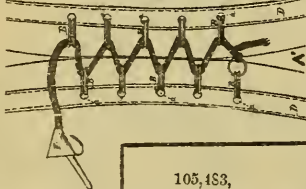
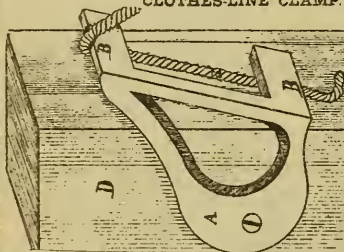
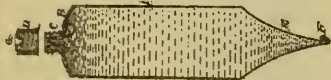
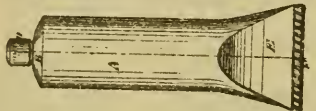
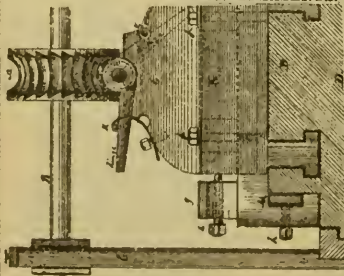
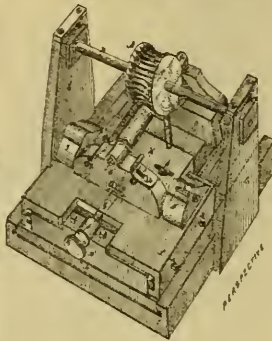
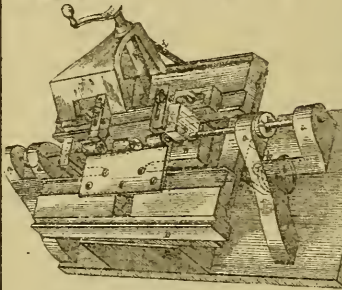
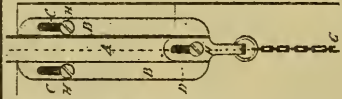
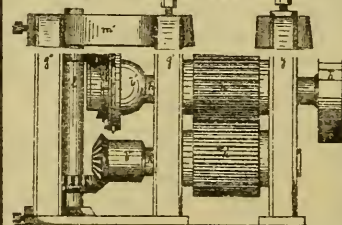
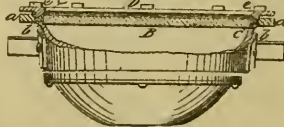
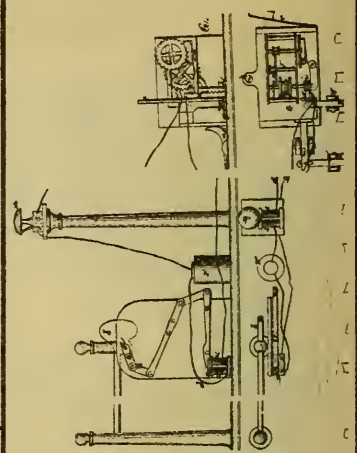
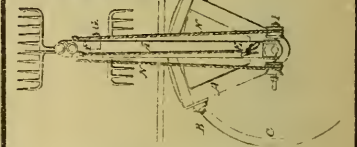
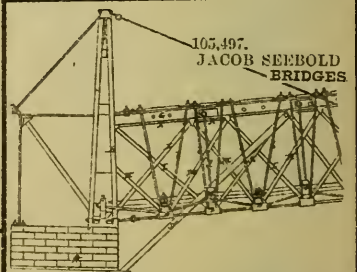
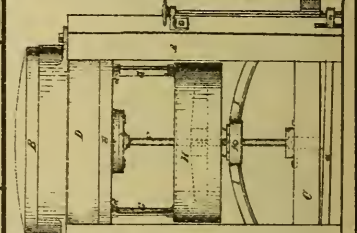
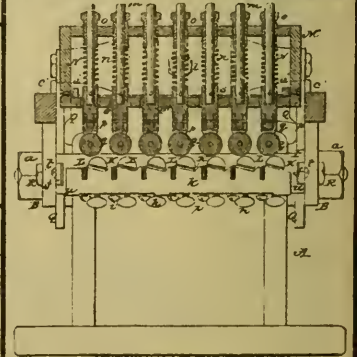
105,462, LEOPOLD KATZENSTEIN. PACKING

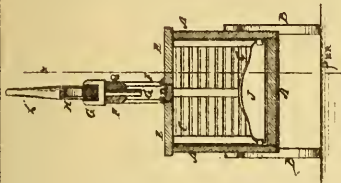


105,463, KARL M. KLEES. MACHINES
FOR MAKING PRINTERS' LEADS.105,464, JAKOB KLEIN.
APPARATUS FOR THE MANUFACTURE
OF ALBUMENIZED PAPER.105,465, LUCIUS J. KNOWLES.
PISTON FOR STEAM-PUMPS.105,466, LUCIUS J. KNOWLES.
PISTON-PACKING.105,467, JOHN LOGAN. HAIR-SPRING-
TESTING APPARATUS FOR WATCHES.105,468,
ALEXIS MARAIN.
PARLOR-ROULETTE.105,469, GEORGE W. MARBLE.
SAW FOR MAKING STUFFING FOR
UPHOLSTERING.105,470, CHARLES MARKLEY.
CAR-COUPPLINGS.105,471,
JAMES MAYHEW.
CHURNS.105,472,
GEORGE MCALEER.
FOLDING CHAIR.105,473, JOSEPH A. MCCLURE.
CORN-PLANTER.105,474, BRYANT H. MELENDY.
COMBINED KEY-RING
AND DOOR-FASTENER.

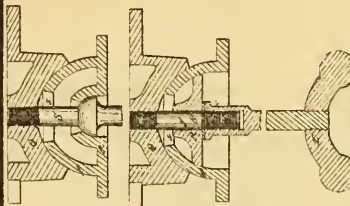
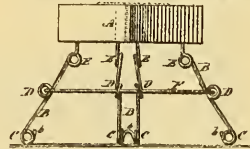
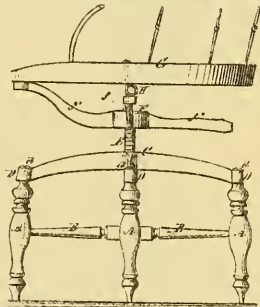
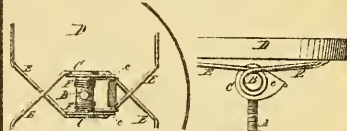
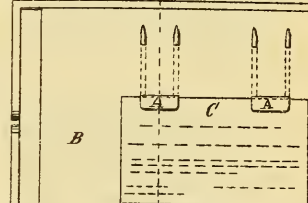
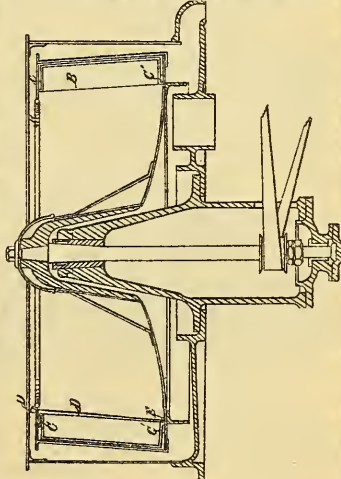
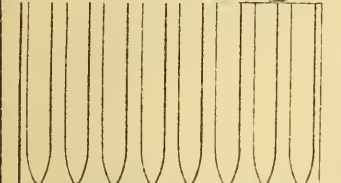
105,475, J. P. MERANDA. CHURNS.

105,476,
JOSEPH B. MERRITT.
WHEEL-FEEDS.105,477, CHARLES A. MILLER.
HAY-ELEVATOR AND CONVEYER.105,478,
JOSEPH MITCHELL.
RAILWAY CAR-SPRINGS.

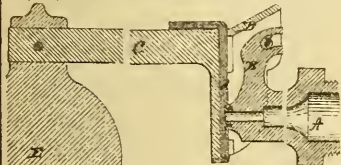
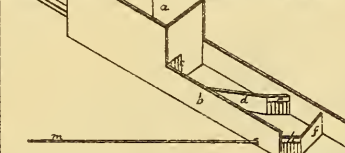
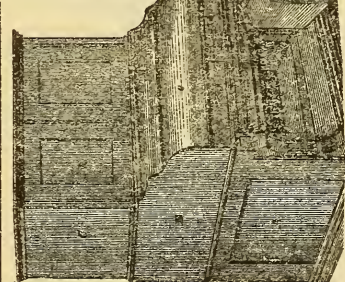
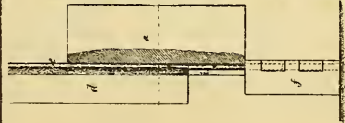
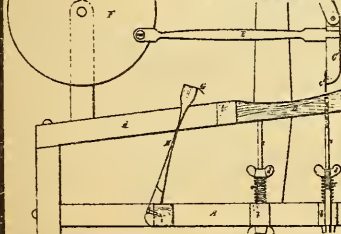
105,479, ADOLPHE MOT.
MAKING BUTTER105,480, D. NEVIN.
ORE SEPARATOR.105,481, HARRISON OGBORN.
STRAW-CUTTER105,482, JULIUS E. OTTO.
SHOE-FASTENERS.105,483,
THOS. W. OWENS
CLOTHES-LINE CLAMP.105,484, H. L. PALMER. PRESERVING
VARIOUS ARTICLES OF FOOD.105,485, H. L. PALMER.
PRESERVING VEGETABLE EXTRACTS.105,486, MOSES PALMER, JR.
E. W. ANDERSON.
PATTERN FOR MEASURING THE BODY
FOR GARMENTS.105,487, EMERY PARKER.
MACHINE FOR MILLING THE
KNUCKLES OF BUTT-HINGES105,488, EMERY PARKER.
MACHINE FOR CENTERING BUTTS.105,489, RUSSEL B. PRINDLE.
DOOR-BOLTS.105,490, ABRAM REESE. MACHINE FOR
JACOB REESE.
MAKING HORSESHOE BLANKS.105,491, W. RICKARDS, JR. BUFFER
HEAD FOR CAR COUPLINGS.105,492, EDW. S. RITCHIE.
MARINE COMPASSES.105,493, WM. ROBINSON
ELECTRO-MAGNETIC GATE AND
SIGNAL APPARATUS FOR RAILROADS.105,494, WM. ROBINSON.
ELECTRO-MAGNETIC GATE-
OPERATING APPARATUS105,495,
JOSEPH W. SANDS.
OYSTER-TONGS.105,496, CHARLES SCHNEIDER.
HANGING MILL-STONES.105,497,
JACOB SEEBOLD
BRIDGES105,498, J. A. SEVEY.
MACHINE FOR SPLITTING WHALEBONE105,499, EDWIN B. S. SHOEMAKER.
THE MANUFACTURE OF LUBRICATING
COMPOUNDS

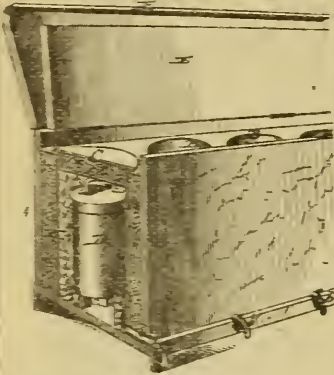
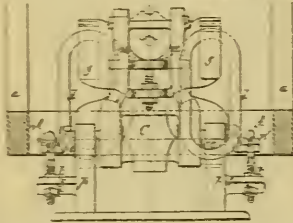
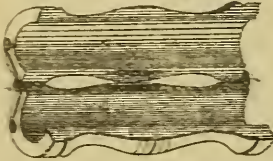
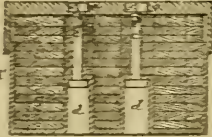
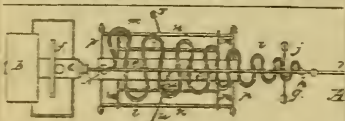
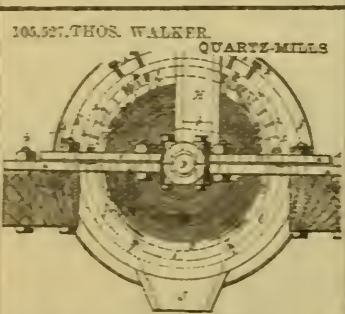
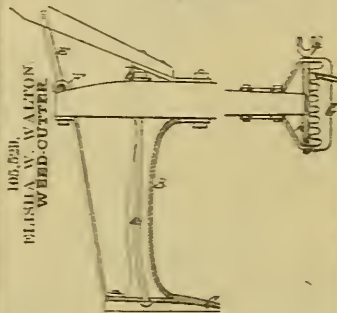
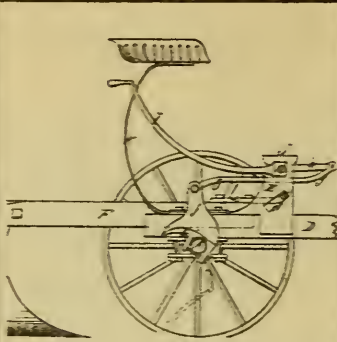
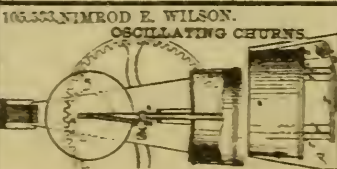
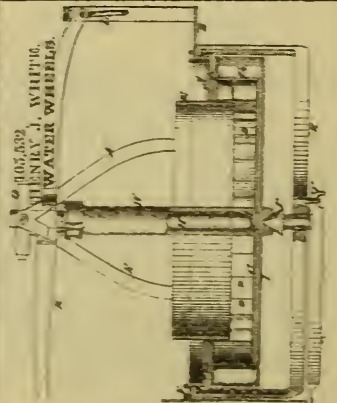
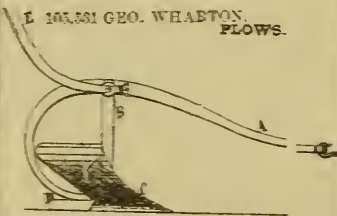
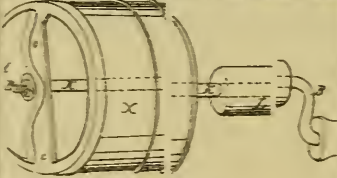
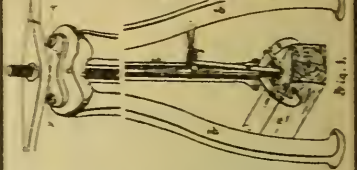
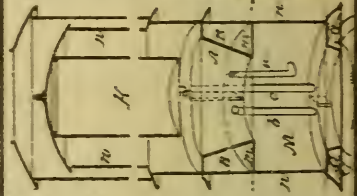
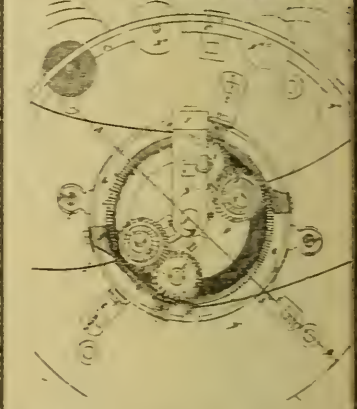
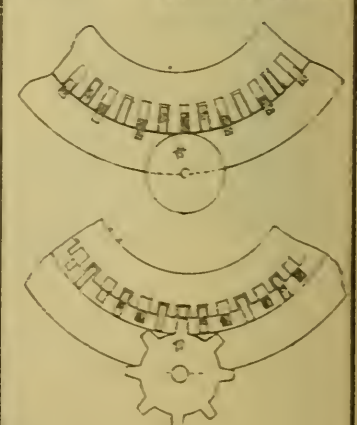
105,500, PETER B. SHOEMAKER.
WASHING-MACHINE.

105,507, ANSON P. STEPHENS. VISES

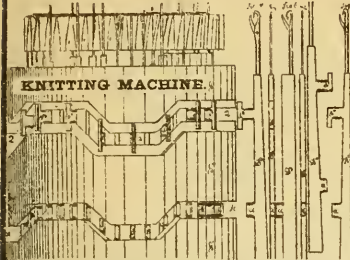
105,514, WILLIAM FRANCIS SWASEY.
CONDIMENT OR RELISH.105,515, DANIEL E. TEAL.
CONSTRUCTION OF CHAIRS105,516, DANIEL E. TEAL.
CONSTRUCTION OF CHAIRS.105,517, DANIEL E. TEAL.
CONSTRUCTION OF CHAIRS.105,518, R. W. THING.
GAUGE-PINS FOR TYMPAN-SHEETS105,519, S. LEE TIBBALS.
DEVICE FOR CURLING HAIR.105,520, PATRICK TULLY.
CENTRIFUGAL SUGAR-DRAINING
AND MOLDING MACHINE.105,501, NATHAN J. SIMONDS.
BOOT AND SHOE-STIFFENER.105,502, R. SKINNER AND B. BONNET
CONCRETE PAVEMENT.

105,503, LEVI F. SMITH. GAUGE-COCKS.

105,504, SAMUEL H. SMITH
RAILWAY-RAIL CHAIRS.105,511, JOHN W. STOCKWELL.
PREPARATION OF CEMENT FOR THE
MANUFACTURE OF
CEMENT PIPE.105,512, T. J. SULLIVAN.
SECRETARY-SAFE105,513, L. P. SUMMERS.
DEVICES FOR INSERTING THE
PINTLES OR PINS IN BUTT-RINGES105,506, JAMES STARRATT.
MACHINES FOR REMOVING GREASE
FROM LEATHER.105,505,
THOMAS G. STAGG.
FOLDING CARRIAGE
FOR CHILDREN.

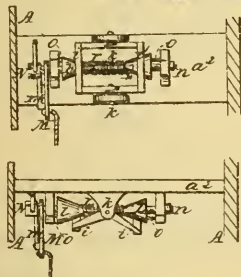
105,521. CARL VIGNAL.
ICE-CREAM REFRIGERATOR105,522. VICTOR VINCENT.
PLATFORM-SCALES105,523. E. H. GUSTAV VON DOEHRN.
FREDERICK P. L. NEMES.
SADDLE-IRON HOLDER105,524.
RICH. VISE.
CAR-SPRINGS.105,525. ALFRED WALKER. REGULATOR
FOR STEAM HEATING APPARATUS105,526. REBECCA J. WALKER.
MODE OF PROTECTING FRUIT-TREES
FROM CURCULIO, &c.105,528. ELISHA W. WALTON.
GANG-FLOWS105,530. I. A. WARNER.
CORN-POPPERS AND COFFEE-ROASTERS105,534. GEO. W. WINDSOR.
LIFTING-JACK105,535. GEORGE A. WING.
BASE-BURNING STOVE105,536.
CHARLES D. WEIGHT.
WATER-WHEELS105,537. W. H. ABEL.
KNITTING MACHINE105,538. W. H. ABEL.
KNITTING MACHINE

105,539. W. H. ABEL.

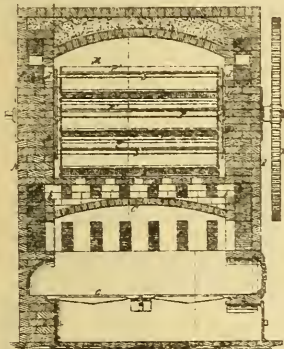
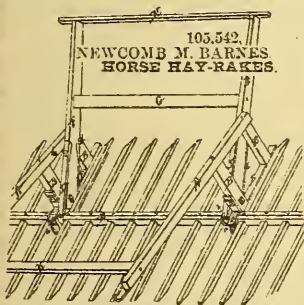
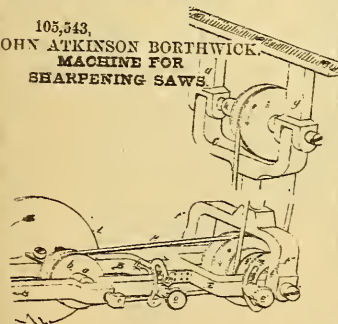
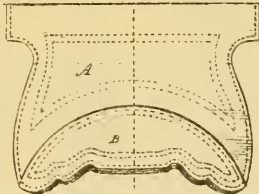
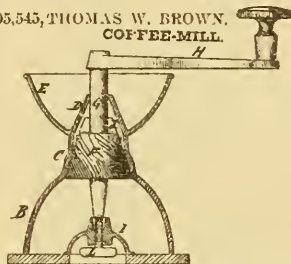
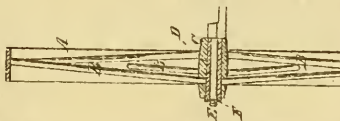
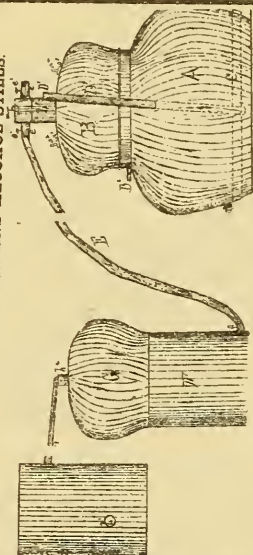
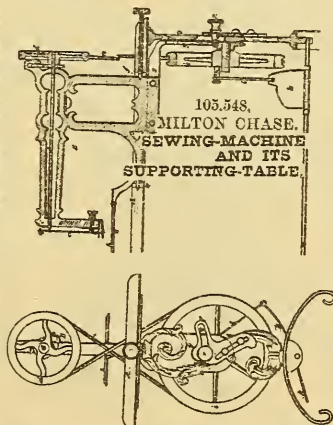
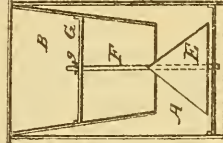


105,540. JAS. E. AUSTIN.

SHINGLE-MACHINE.

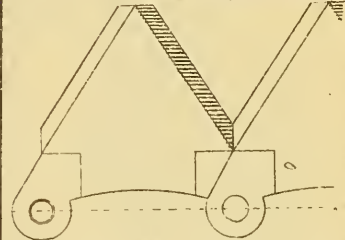


105,541. HOSEA BALL. OVEN.

105,542.
NEWCOMB M. BARNES
HORSE HAY-RAKES.105,543.
JOHN ATKINSON BORTHWICK.
MACHINE FOR
SHARPENING SAWS.105,544. WILLIAM BOYD.
WINKER FOR HARNESS-BRIDLES.105,545. THOMAS W. BROWN.
COFFEE-MILL.105,546. SENECA B. BUCK.
CARRIAGE-WHEEL.105,547. JAMES A. CAMPBELL.
FRUIT AND ALCOHOL STILLS.105,548.
MILTON CHASE.
SEWING-MACHINE
AND ITS
SUPPORTING-TABLE.105,549. E. H. CLARKSON.
VALVE FOR WATER-BOILERS.

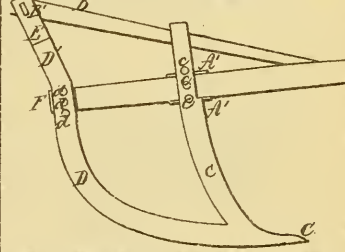
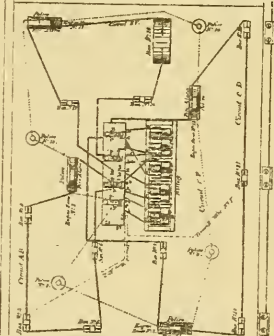
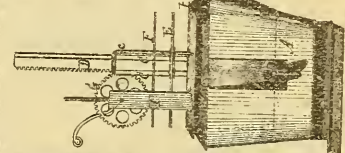
105,550. J. M. CONNEL.

HARVESTER-CUTTER.

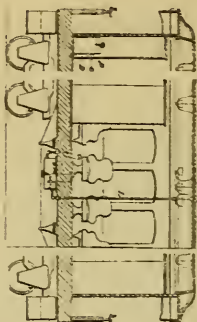
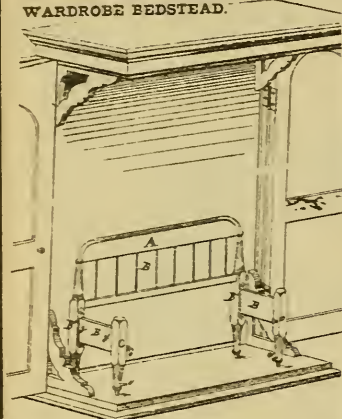


105,551. THOMAS L. COTTEN.

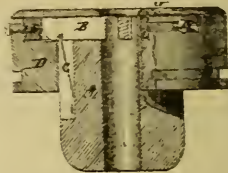
SUBSOIL-FLOWS.

105,552. SYLVANUS D. CUSHMAN.
SYSTEM OF FIRE-ALARM AND
POLICE-TELEGRAPHS.105,553. W. S. DEEDS.
KETTLE FOR MELTING, MIXING
AND CASTING METALS.105,554. EBEN DENTON.
SHIPS' TOPMASTS.105,555.
ANDREW J. DEXTER.
BLACKSMITHS' TONGS.

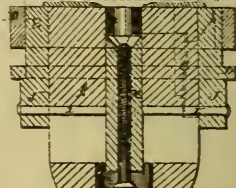
105,556, JAMES F. DODGE.
WARDROBE BEDSTEAD.



105,568, MAHLON HAMLIN.
BOLT-THREADING MACHINE.



105,569, MAHLON HAMLIN.
BOLT-THREADING MACHINE.



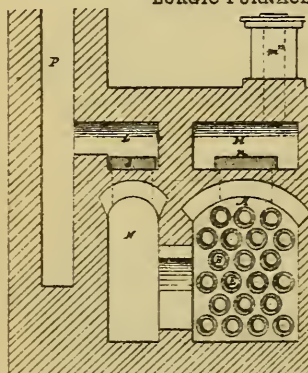
105,562, ALFRED FOUCAUT.
ELECTRO-MAGNETIC ATTACHMENT
TO SHIPS' COMPASSES.



105,570, THOMAS HARDING.
SHOVEL-TEETH FOR CULTIVATORS.



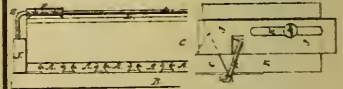
105,557, JOSIAH W. ELLS.
APPARATUS FOR GENERATING AND
BURNING GASES IN METAL-
LURGIC FURNACES.



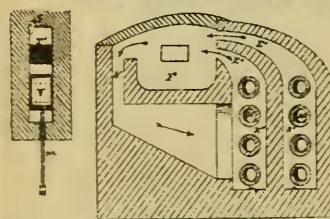
105,563, JOHN F. FRENCH.
BLOTTER-PADS



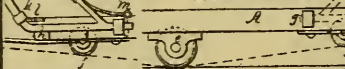
105,571 ALBERT K. HEBARD.
ORGAN-STOPS.



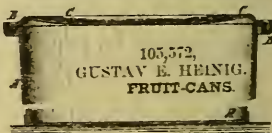
105,558, JOSIAH W. ELLS.
GAS AND AIR-HEATING APPARATUS
FOR METALLURGIC FURNACES



105,564, LEONARD GILSON.
HAND-TRUCKS.



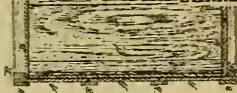
105,572, GUSTAV B. HEINIG.
FRUIT-CANS.



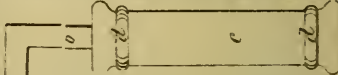
105,573, ENOS T. HIGHAM.
SHADE-CORD RETAINER.



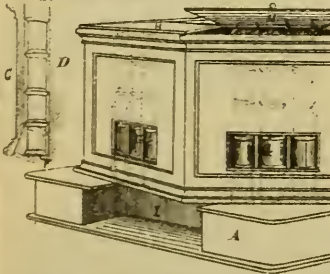
105,565, PARDON H. GRISWOLD.
BARRELS.



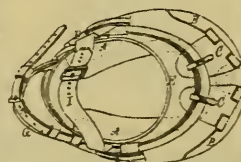
105,574, JOHN J. HULLMAN.
WHIP-SOCKET RINGS.



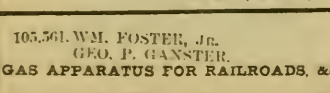
105,559, EREN B. FENTON.
HENRY S. PENFIELD.
SPOOL-STAND AND SHOW-CASE.



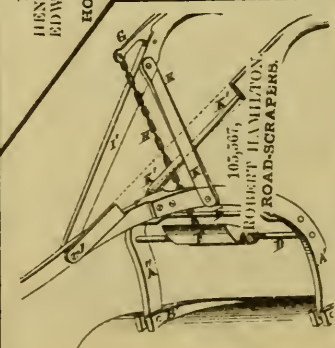
105,566, HENRY G. HAEDRICH.
EDWARD M. HAEDRICH.
COMBINED
HORSESHOE AND BOOT



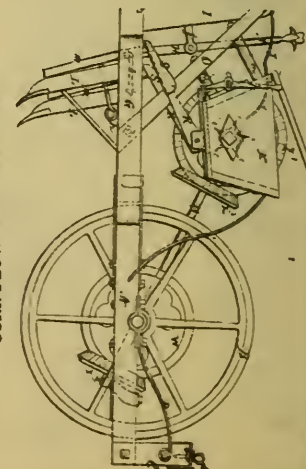
105,560, OSCAR S. FOLLETT.
PRESERVING AND BEAUTIFYING
CRYSTALLIZED SALTS UPON
GLASS, MICA, &c.



105,561, WM. FOSTER, JR.
GEO. P. GANSTER.
GAS APPARATUS FOR RAILROADS, &c.



105,575, CASWELL HOLLAR, COMBINED
CORN-PLOW AND GRAIN-DRILL.



105,576, HENRY M. JOHNSTON.
PROTECTING AND BEAUTIFYING
CRYSTALLIZED METALLIC SURFACES.

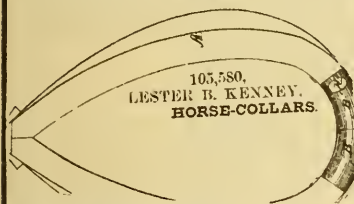
105,577, AMASA C. KASSON.
BINDING AND HEMMING ATTACHMENT
FOR SEWING-MACHINE.



105,578, ISAAC A. KEELER.
HAND CORN-PLANTERS.

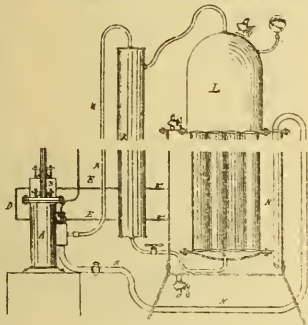


105,579, WILLIAM KELLY.
ANIMAL FOKES.

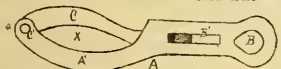


105,580,
LESTER B. KENNEY.
HORSE-COLLARS.

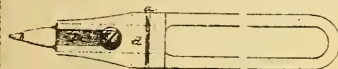
105,581 EMILE LAMM.
AMMONIACAL-GAS ENGINES.



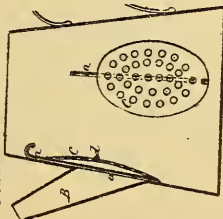
105,582, ROBERT VANCE LANEX. HOOK



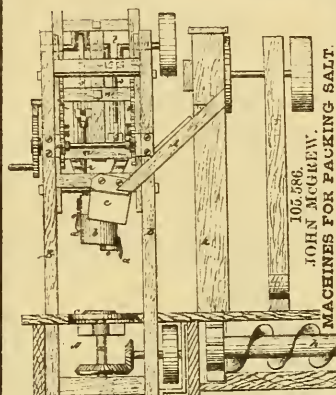
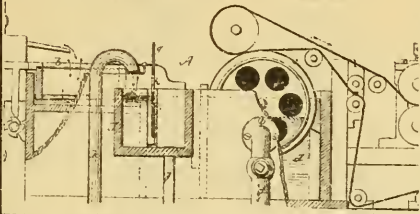
105,585, WILLIAM W. LYMAN.
CAN-OPENERS.



105,584,
EDWARD B. MANNING.
COFFEE OR TEA-POT.

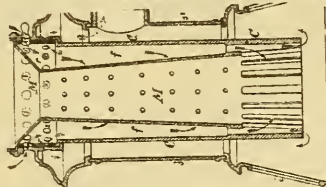


105,585, GEO. E. MARSHALL.
PROCESS AND APPARATUS FOR THE
MANUFACTURE OF PAPER

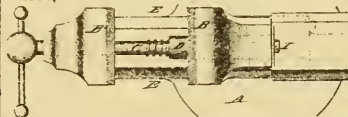


105,586,
JOHN MCGREW.
MACHINES FOR PACKING SALT.

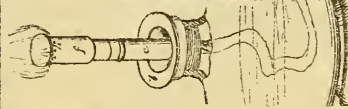
105,587, JULIUS H. MEISSNER.
BASE-BURNING STOVE



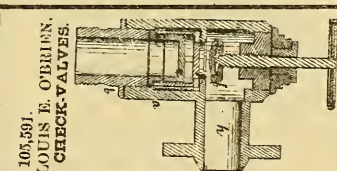
105,588, GEORGE MITCHELL. VISES.



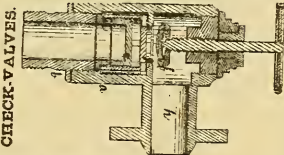
105,589,
THOMAS MOORE.
VAPOR-BURNERS.



105,590, BUTLER G. NOBLE.
TREATING OIL-WELLS TO REMOVE
OBSTRUCTIONS TO THE FLOW OF OIL.



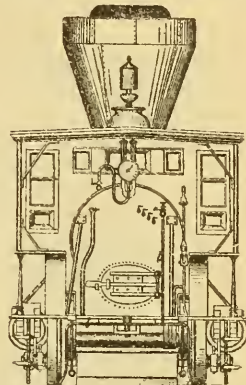
105,591,
LOUIS E. O'BRIEN.
CHECK-VALVES.



105,592, GEORGE O'CONNOR
HAINES O'CONNOR.
GRINDING-MILLS.



105,593, CARLOS ORTIZ.
HILARIO VALLADARES.
RAILWAY-RAIL CLEANERS.

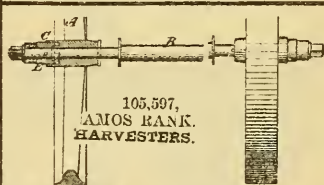


105,594, HENRY PEMBERTON.
MANUFACTURE OF PAPER.

105,595, E. H. PLANT.
DIES FOR TRIMMING AND
STRAIGHTENING AXLE-CLIPS.



105,596, FRANCIS G. FOKORY.
PAINT FOR MARBLEIZING WOOD



105,597,
AMOS RANK.
HARVESTERS.

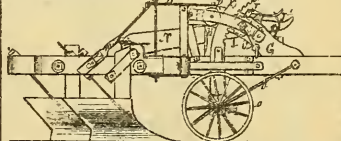
105,598, JOHN R. RICHARDSON.
LOCOMOTIVE WHEELS.



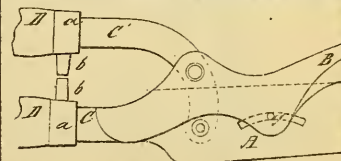
105,599, J. J. SCHILLINGER.
CONCRETE PAVEMENT.



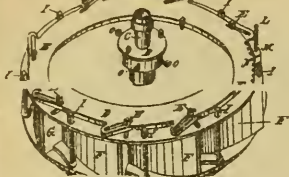
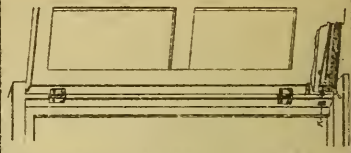
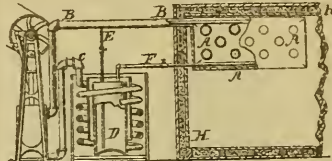
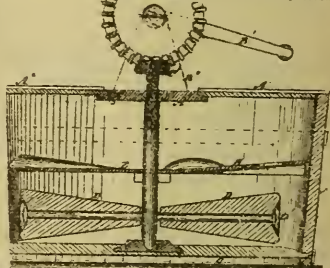
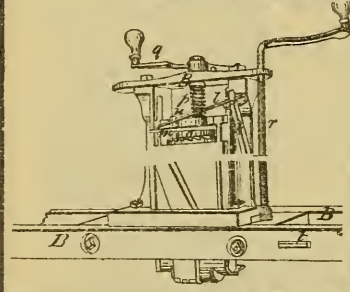
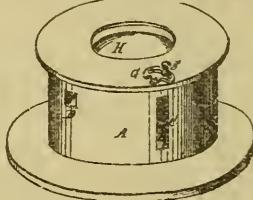
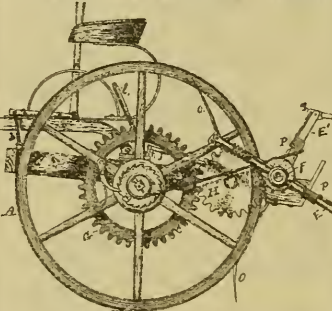
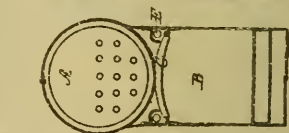
105,600, DELOS A. SEARS.
GANG-FLOW.



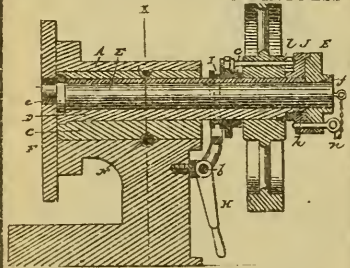
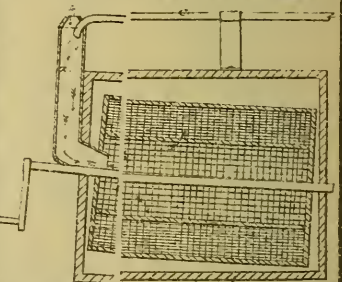
105,601, D. B. SEELEY. PRUNING-HOOKS



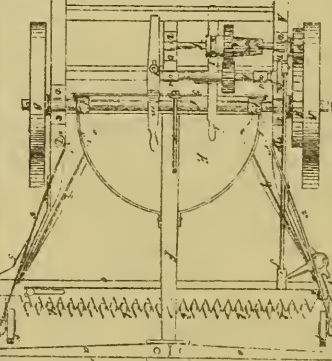
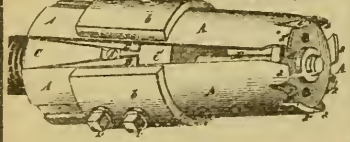
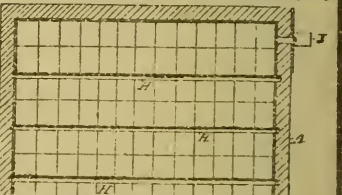
105,602, W. L. SELLECK. WATER-WHEELS.

105,609 P. H. VANDER WEYDE, M. D.
APPARATUS FOR COOLING AND REFRIGERATING105,616 GEO. L. WITSIL.
WASHING-MACHINES.105,603, HENRY C. SMITH.
MORTISING-MACHINE.105,610, ALEX. VAN VLECK.
THOMAS PHILLIPS.
MILLSTONE-CURE.105,611, HENRY C. VARNUM. COMBINED
HORSE HAY-RAKE AND TEDDER.105,617, GEO. M. WYNE.
WM. MAC GROVE
FURNACES FOR STEAM-ENGINES.

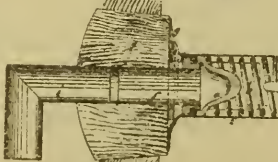
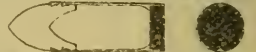
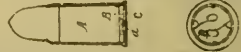
105,604, OTHNIEL J. SMITH. WRENCHES.

105,605, CHARLES M. STRATTON.
OSCAR G. STRATTON.
POWER-PRESS105,618, ROBERT TURNER.
FLOUR-BOLT ATTACHMENT

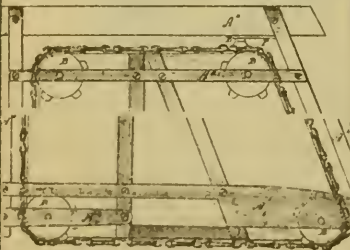
105,612, HENRY C. VELIE. HARVESTERS.

105,606, N. J. TEMPLETON.
BUNG-CUTTER4,074, DANIEL C. COLBY.
THOMAS WOODS.
BENJ. F. PINE
MANUFACTURE OF WHITE LEAD105,607, HENRY TERRY.
HARTH-CHAMBER PAIRS.

105,613. A. WARTH. BUNG.

4,075, ARTHUR MOFFATT.
PRIMING CARTRIDGES.4,076, ARTHUR MOFFATT.
PRIMING CARTRIDGES.

105,608, J. TOAY. HARVESTER-RAKES.

105,614, ROBT. WHITE.
CLAMP-NUT FOR SCREWS.105,615, FRANKLIN WHITMORE.
EDWARD CONKLY.
WEATHER-STRIP FOR DOORS4,077, ANTHONY PEPLE.
MODE OF ATTACHING CORNICES
TO WINDOWS.

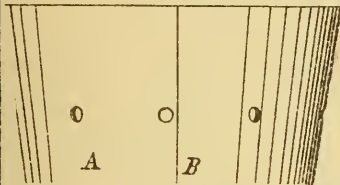
ILLUSTRATIONS OF PATENTS

ISSUED FROM

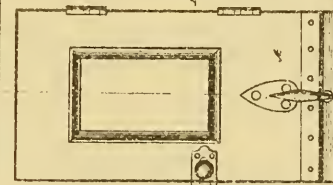
THE UNITED STATES PATENT OFFICE

JULY 26. 1870.

105,619, ALFRED ADAMS.
JOSEPH F. JEWETT.
PAPER FRUIT-BASKETS.



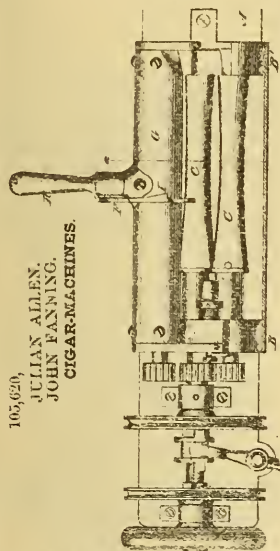
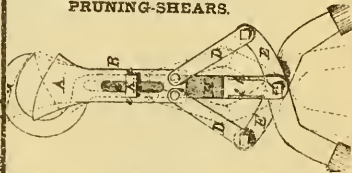
105,623, MAURICE ARMSTRONG.
ADJUSTABLE DOOR-SILLS.



105,628, NELSON BARNUM.
NEEDLE-THREADER.

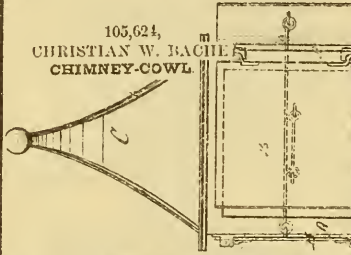


105,629, HENRY W. BLACK.
PRUNING-SHEARS.

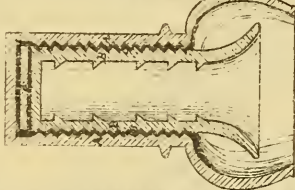


105,630,
JULIAN ALLEN.
JOHN FANNING.
CIGAR-MACHINES.

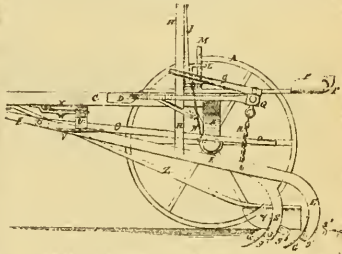
105,624,
CHRISTIAN W. BACHE.
CHIMNEY-COWL.



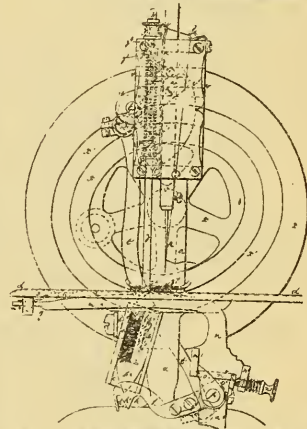
105,625, WILLIAM W. BALDWIN.
TELEGRAPH-INSULATORS.



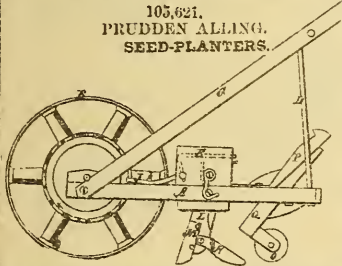
105,630, NOAH G. BLAUSER.
SULKY-CULTIVATORS.



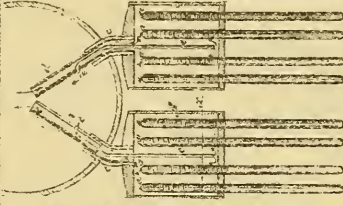
105,631, THOMAS BLETCHER.
SEWING-MACHINE.



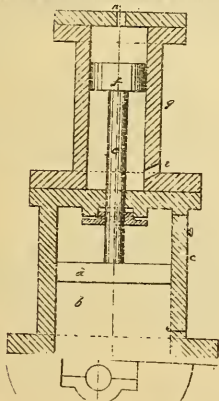
105,621.
PRUDEN ALING.
SEED-PLANTERS.



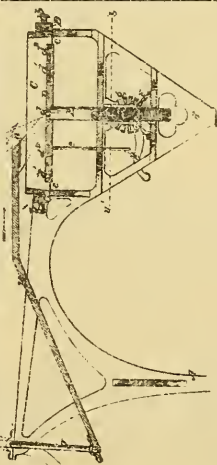
105,626, NELSON H. BARBOUR.
STEAM-GENERATOR.



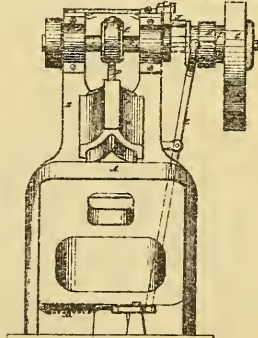
105,622, GUSTAVUS AMES.
APPARATUS
FOR REDUCING WOOD TO PULP.

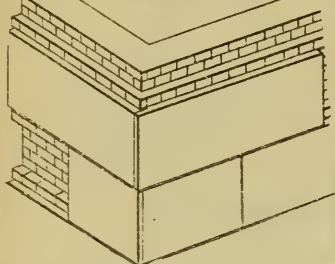
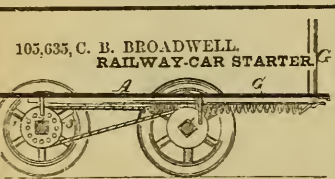
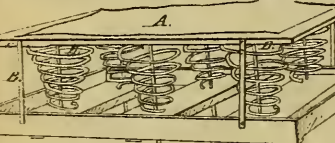
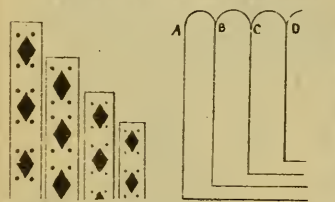
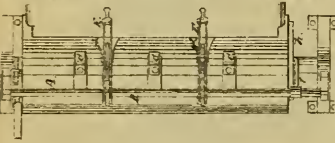
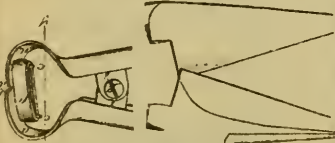
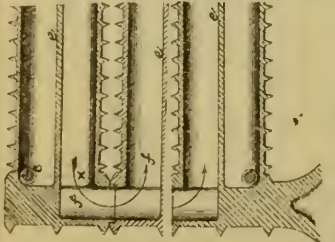
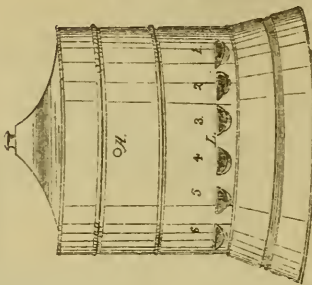
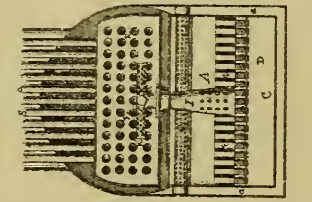
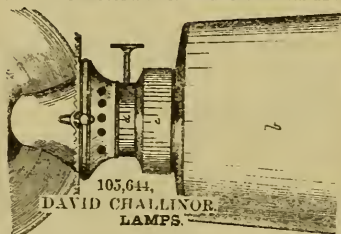
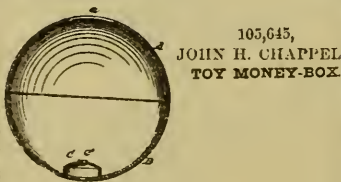
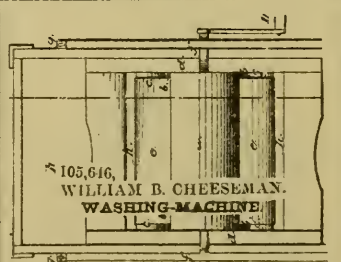
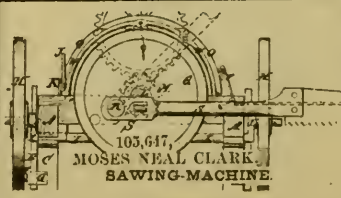
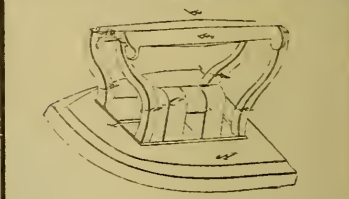
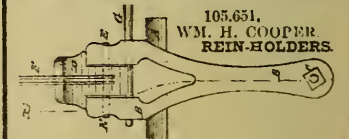
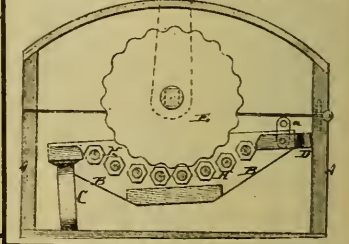
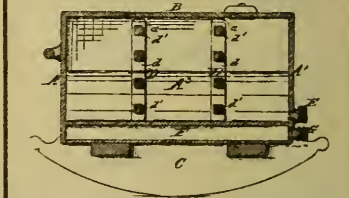
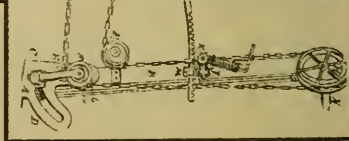
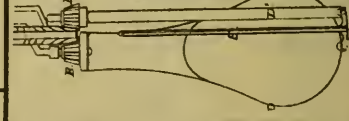
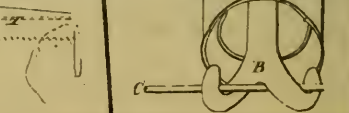


105,627, WILLIAM F. BARNES.
MACHINERY FOR CUTTING WAX INTO SHEETS.

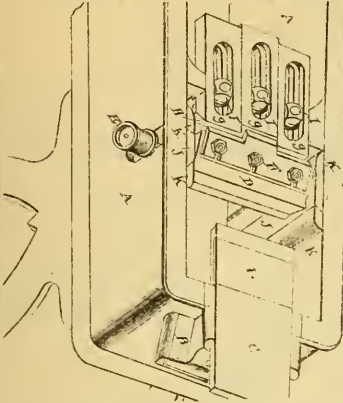


105,632, ELIPHALET W. BLISS.
POWER-PRESS.



105,633. WILLIAM BOULTON.
CUTTING ASHLARS.105,634. A. H. BOURNE. COMPOUND
FOR MANUFACTURE OF PAINTS.105,635. C. B. BROADWELL.
RAILWAY-CAR STARTER.105,636. MORTIMER CAHILL.
SPRING BED-BOTTOM.105,637. BENJAMIN F. CALLEN.
DESIGN-DIES FOR ORNAMMENTING.105,638. A. CAMPBELL.
GAUGES FOR PRINTING-PRESSES.105,639. DANIEL CAMPBELL.
SHEEP-SHEARS.105,640. BENJAMIN F. CAMPBELL.
CHARLES WHITTIER.
STEAM HEATER.105,641. EZRA C. CARLETON.
RECEPTACLE
FOR MEASURING OUT SHOT.105,642. JOHN CARROLL.
STEAM-GENERATORS.105,643. JOSEPH ELEAZER CARVER.
HULLING-MACHINES.105,644.
DAVID CHALLINOR.
LAMPS.105,645.
JOHN H. CHAPPEL.
TOY MONEY-BOX.105,646.
WILLIAM B. CHEESEMAN.
WASHING-MACHINE.105,647.
MOSES NEAL CLARK.
SAWING-MACHINE.105,648. THOMAS S. CLARK.
WATER-PROOF CEMENT.105,649. JAMES CONNER.
IMPROVED SAD-IRON.105,650. EMANUEL COOL.
SABISEA COOL.
WASHING-MACHINE.105,651.
WM. H. COOPER.
REIN-HOLDERS.105,652. W. H. CURTIN.
WILLIAM LAMMERS. CHURNS.105,653. L. GUYOT D'ARLINCOURT.
RELAY MAGNETS.105,654.
JOSEPH WATTS DAVIS.
ADJUSTABLE REEL-POST
FOR HARVESTERS.105,655. GILBERT K. DEARBORN.
EGG-BEATER.105,656. WM. H. DECHANT.
CRAMP-HOOK FOR TELEGRAPHIC-
WIRE INSULATORS.

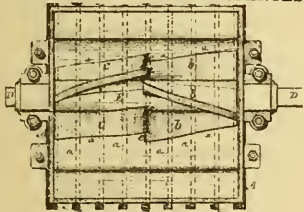
105,657, FRANK DOUGLAS.
PLANING AND MOLDING-MACHINE.



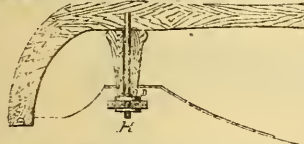
105,658, HENRY DOWSON.
WOOD PAVEMENT.



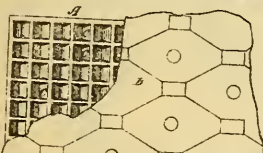
105,659, D. C. EBAUGH.
MACHINES FOR CRUSHING MINERAL
AND OTHER HARD SUBSTANCES.



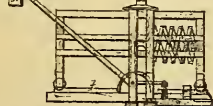
105,660, WM. M. ECCLES. DEVICE FOR
PREVENTING PLOWS FROM CHOKING.



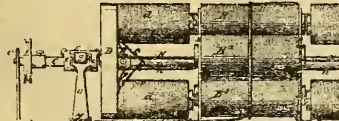
105,661, NELSON EDWARDS.
CARPET "UNDERLIE."



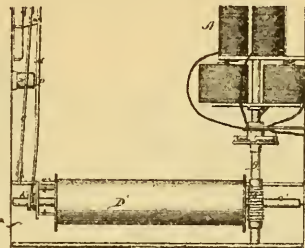
105,662, GEORGE J. FIEDLER.
FARM-GATES.



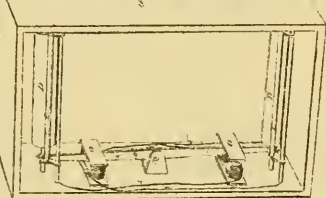
105,663, LOUIS FINGER.
ELECTRO-MAGNETIC MOTORS.



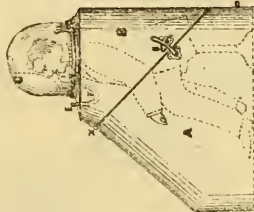
105,664, LOUIS FINGER.
ELECTRO-MAGNETIC APPARATUS
FOR MOVING PANORAMAS.



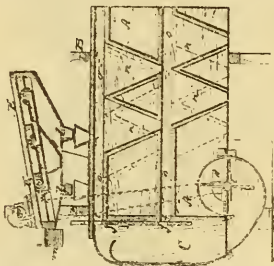
105,665, ELIPHALET J. FOSS. MOVABLE
SCREENS FOR PHOTOGRAPHERS.



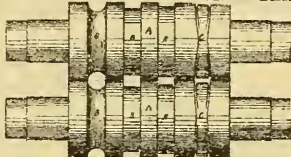
105,666,
SAMUEL C. FRINK.
DEPURATORS.



105,667, G. GIESBERT.
FLOUR SIFTER.



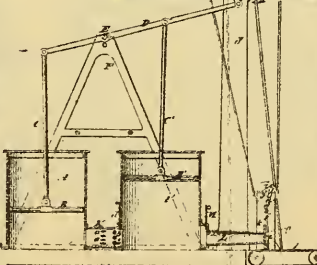
105,668, WILLIAM GILMAN.
MACHINES FOR ROLLING
PLOW-BEAMS.



105,669, LYMAN A. GOUGH.
VAPOR-BURNERS.



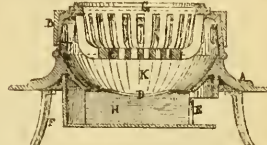
105,670, LOUIS GROUX.
MANUFACTURE OF SOAP.



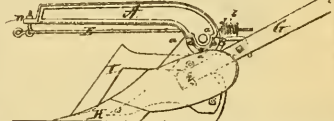
105,671, TIMOTHY GUNN.
BOOT-JACK AND SPUR.



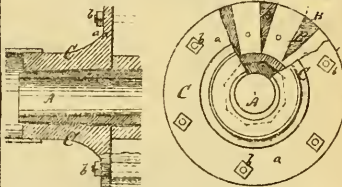
105,672, JOSEPH HACKETT. COAL-STOVE.



105,673, JOSEPH D. HALL.
PLOWS.



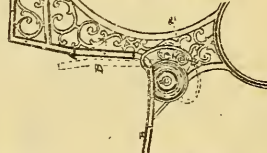
105,674, JOHN D. HAM. WAGON-HUBS.



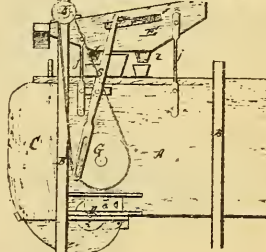
105,675, MATTHEW HARBSTER. BOLTS.



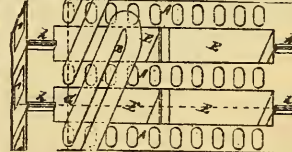
105,676,
CHARLES G. HARTINGTON.
DAVID MILLS.
SCHOOL-SEAT.



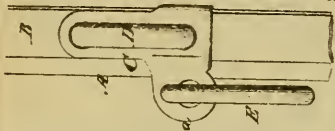
105,677, M. P. HARLEY.
CHAIR AND LOUNGE.



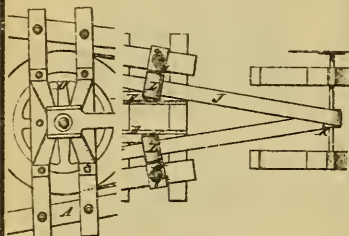
105,678, JOHN M. HARTMAN.
OVENS OR STOVES FOR HEATING
THE BLAST OF BLAST-FURNACES.



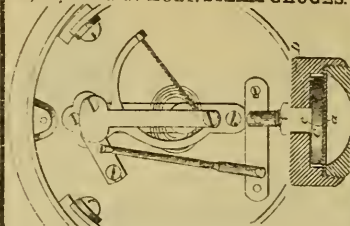
105,679, WM. B. HAYDEN.

MODE OF ATTACHING
HOLD-BACK RINGS TO HAMES.

105,680, J. R. HEDGES. HORSE-POWERS.

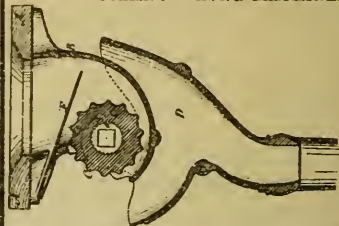


105,683, JOHN P. HOLT. STEAM-GAUGES.



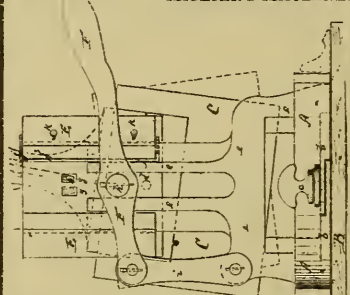
105,690, JOSEPH INGELS.

GRAIN-DRILLING MACHINES.

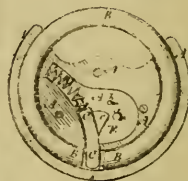


105,686, JOHN HOLZBERGER.

MITERING-MACHINE.



105,691.

JOSEPH INGELS.
PADLOCKS.

105,692, HENRY M. JOHNSTON.

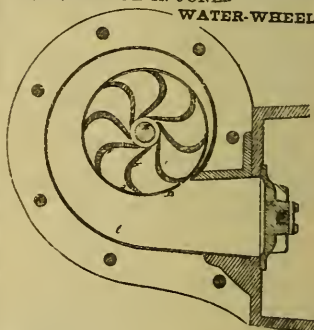
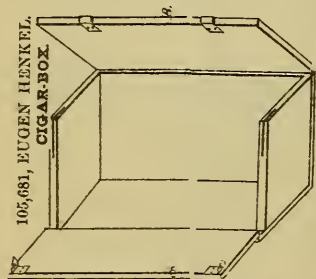
LAMBREQUINS.

105,693, HENRY M. JOHNSTON.

LAMBREQUINS.

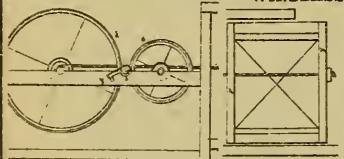
105,694, GEORGE H. JONES

WATER-WHEELS.

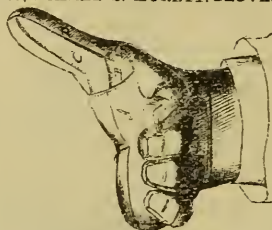
105,681, EUGEN HENKEL.
CIGAR-BOX.

105,682, ALONZO HITCHCOCK.

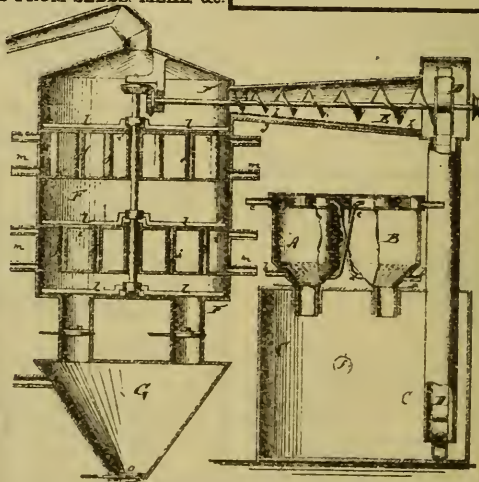
WINDLASS.



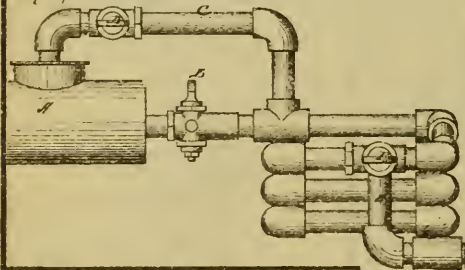
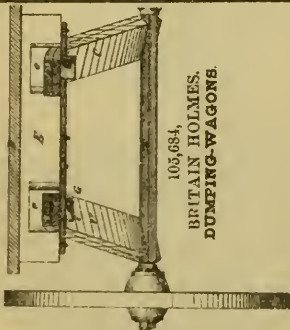
105,687, DANIEL S. HULETT. GLOVES.



105,688, ELIAS S. HUTCHINSON.

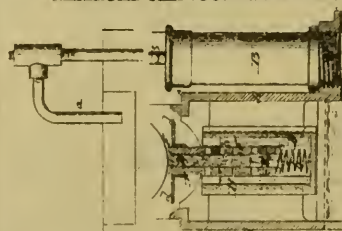
APPARATUS FOR REMOVING
OIL FROM SEEDS, MEAL &c.

105,683, JOHN HOFFERBERTH. OIL-STILL.

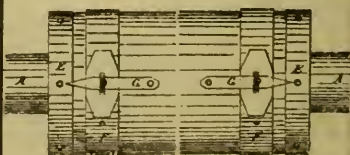
105,684,
BRITAIN HOLMES.
DUMPING-WAGONE.

105,689, CHARLES HIRIG.

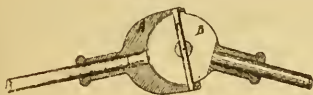
RAILROAD-CAR JOURNAL-BOXES.



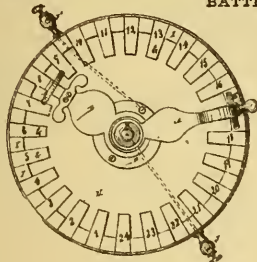
105,695, MARQUIS R. JONES.

BOXING FOR COVERING THE
SHAFTING OF MACHINERY.

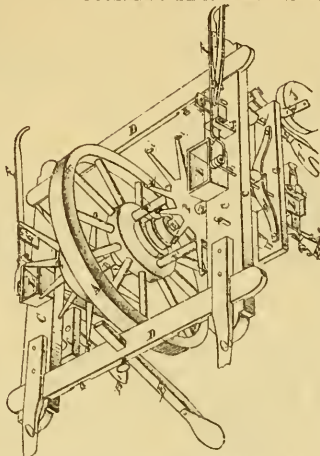
105,696, MOSES A. KELLER.
UNIVERSAL SHAFT-COUPLING.



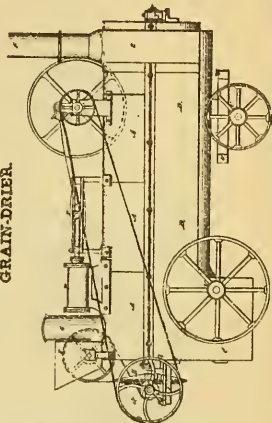
105,697, JEROME KIDDER, M. D.
COMPOUND SWITCHES FOR ELECTRIC
BATTERIES.



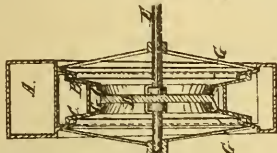
105,703, WILBER C. LOCKWOOD.
CORN AND SEED-PLANTERS.



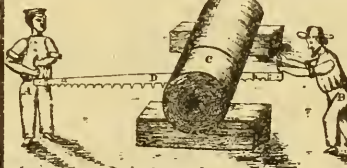
105,709,
ROBT. MILBURN
THOS. BROWNING
GRAIN-DRIER.



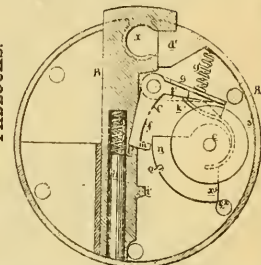
105,698, A. KNEASS WATER WHEEL.



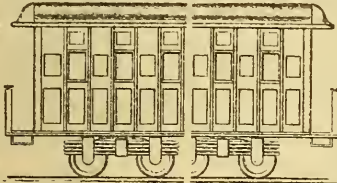
105,704, PETER LONGWELL.
CROSS-CUT SAWS.



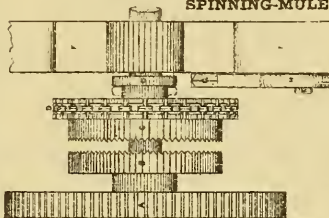
105,710,
D. K. MILLER.
PADLOCKS.



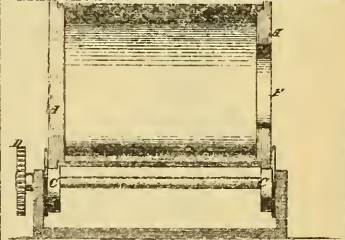
105,699, B. J. LA MOTHE.
METALLIC RAILWAY-CARS.



105,705, HEZEKIAH MACON.
JOSHUA HUNT.
DEVICE FOR PREVENTING THE
UNCOUPLING OF CLUTCHES IN
SPINNING-MULES.

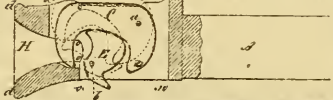


105,711, GEORGE MILLER
GRINDERS FOR CLEANING CASTINGS.

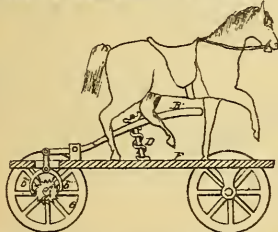


105,700,
JOSIAH LETCHWORTH.
TRACE-SUPPORTING STUD.

105,706, MALANCTHON B. MALOTT.
CAR-COUPLING



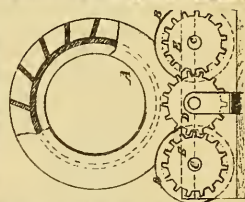
105,701, JOHN LIMING, COMBINED
HOBBY-HORSE AND CARRIAGE-MOTOR.



105,707, DUNCAN MCKENZIE.
WOOD PAVEMENTS.

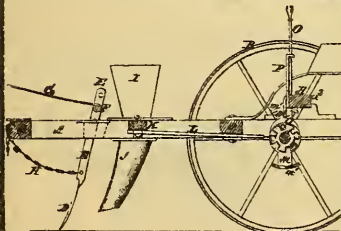


105,712,
GEORGE MILLER.
WATER-WHEELS.

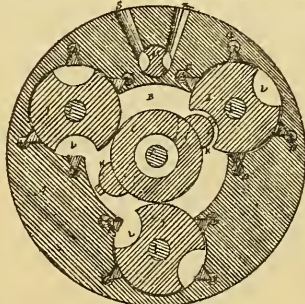


105,713,
H. MILLER.
TAP-NOZZLES
FOR CANS.

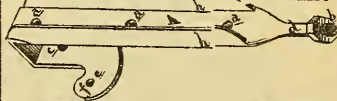
105,702, WILLIAM H. LITTEL.
CORN-PLANTERS.



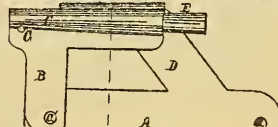
105,708, EDWIN D. MEAD.
ROTARY ENGINES.

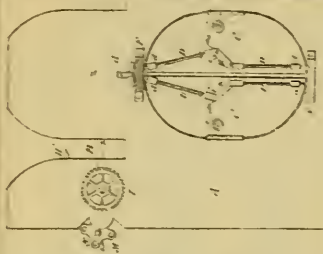
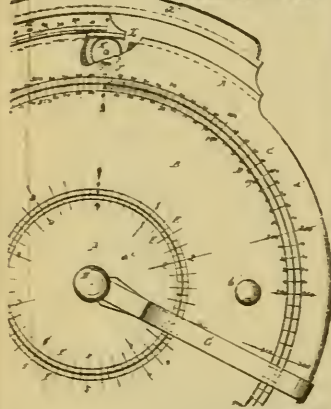
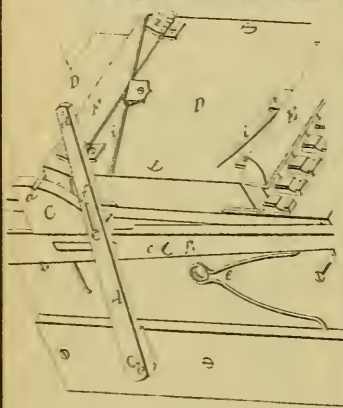
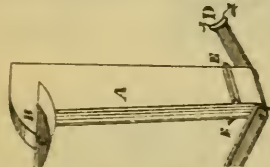
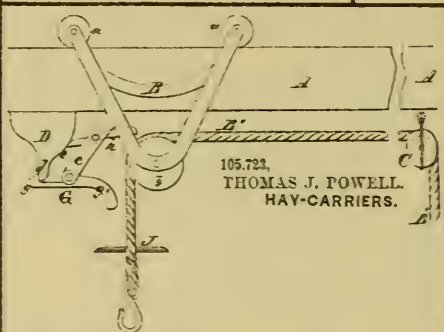
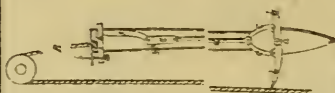


105,714, EDWARD MILNER.
STANDARDS FOR WAGON-BOXES
METALLIC

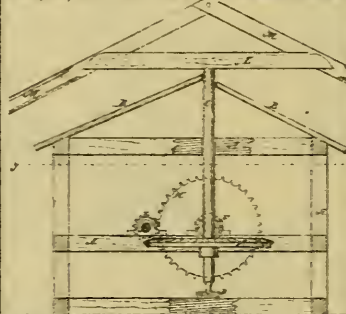
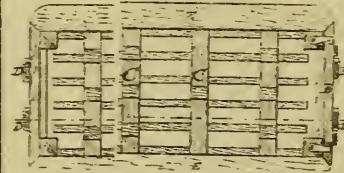
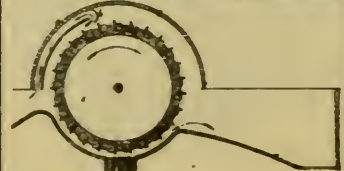
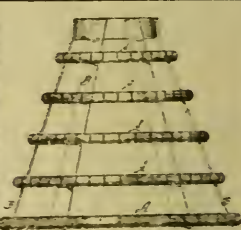
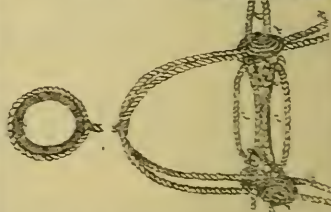
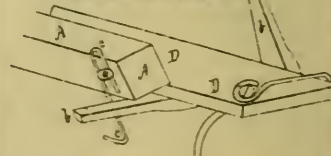


105,715,
SCHAMU MORITZ MOSCHCOWITZ.
ATTACHMENT FOR SEWING-MACHINE.



105,716, NELSON NEWMAN.
CORN-HARVESTERS.105,717, NELS OCKERLUND.
ADDING-MACHINE.105,718, ISAAC T. PACKARD.
REED MUSICAL INSTRUMENTS.105,719, ELIPHALET H. PARKER.
PLANKING-SET.105,720, C. F. PARROTT, TREATING
AND PRESERVING GRAIN IN BULK.105,721, GURDON W. FITCHER, TABLET
LOCKET FOR PHOTOGRAPHS, &c.105,722, HENRY G. PORTER.
HORSE HAY-FORKS.105,723,
THOMAS J. POWELL.
HAY-CARRIERS.

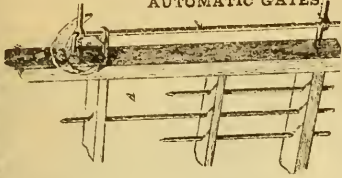
105,724, ROBERT QUINN, HORSE-POWER.

105,725, WILLIAM RICKARD
FLOATING TIDE-DOCKS.105,726, EDWARD B. ROBINSON.
MUSIC-LEAF TURNER.105,727, JOHN K. ROBINSON.
MATCH-STICK.105,728, THOMAS ROSE.
ROBERT EMERSON GIBSON.
ENGINES FOR SEPARATING FIBER
FROM HUSKS OF COTTON-SEED.105,729, THOMAS ROSE.
ROBERT EMERSON GIBSON.
PROCESS FOR SEPARATING THE
FIBER FROM THE HUSK IN COT-
TON-COATED SEEDS.105,730, SARAH E. SAULT.
LIFE-PRESERVING SKIRT.105,731, DANIEL SHERWOOD.
EDWARD P. WOODS.
GEORGE D. DUDLEY.
TABLE-CASTER.105,732, DANIEL SHERWOOD.
GEORGE D. DUDLEY.
TABLE-CASTER.105,733, ALEXANDER J. SHUNK.
HORSE HAY-RAKES.

105,734, FENWICK SMITH, SIDE-SADDLE.



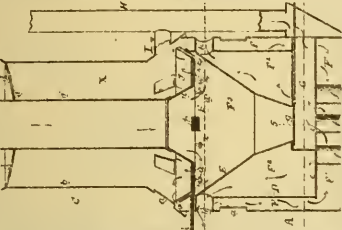
105,735, PRATT A. SPICER.
MONTGOMERY CROSSMAN.
AUTOMATIC GATES.



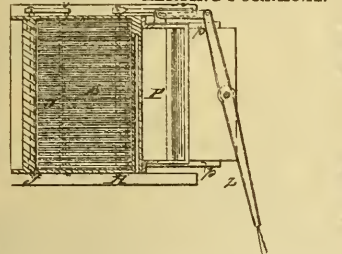
105,736, ALBAN C. STIMERS.
RIFLED CANNON.



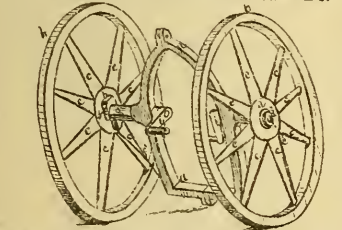
105,737, CARL LISTER SVENSSON.
HEATING-STOVES.



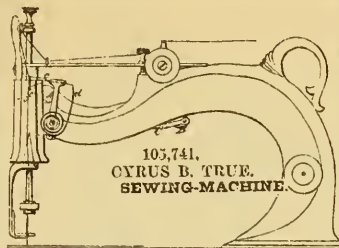
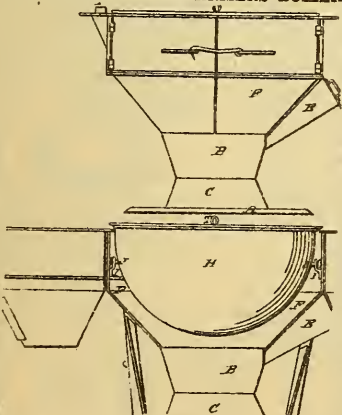
105,738, WM. A. SWEET.
HEATING-FURNACES.



105,739, EPHRAIM TARBOX
VELOCIPEDES.

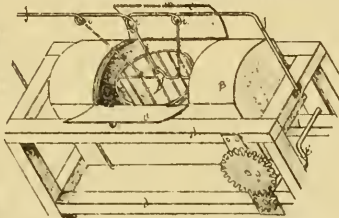


105,740, E. W. THICKINS.
FARMERS' BOILER.



105,741,
CYRUS B. TRUE.
SEWING-MACHINE.

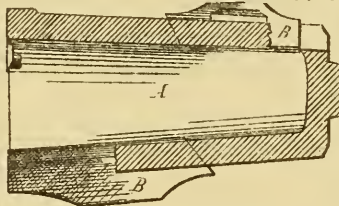
105,742, SOPHIA S. TUPPER.
DISH-WASHING MACHINE.



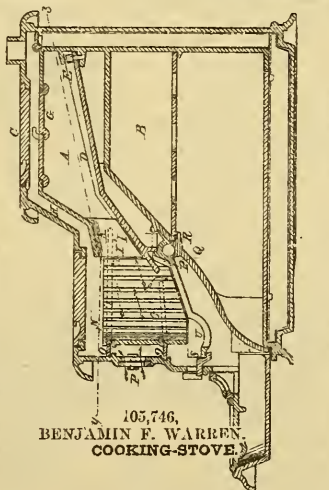
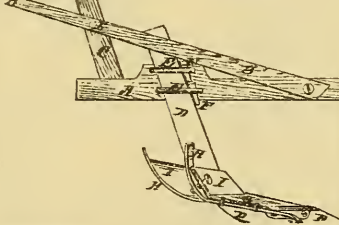
105,743, SAMUEL D. VAN PELT, HINGES.



105,744, ISAAC H. VAN WIE.
HOLLOW AUGER.

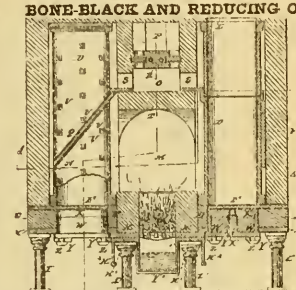


105,745, CHARLES L. WAFFLE
CULTIVATORS.

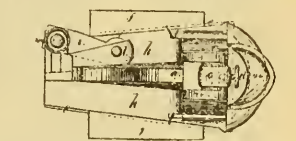


105,746,
BENJAMIN F. WARREN.
COOKING-STOVE.

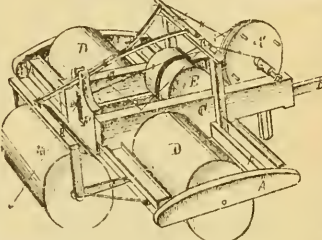
105,747, ADAM WEBER.
FURNACES FOR REBURNING
BONE-BLACK AND REDUCING ORES.



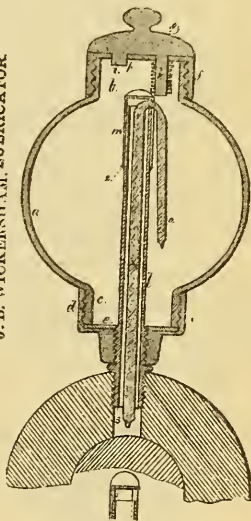
105,748, FRANK WHALEN STOVE-LEG.



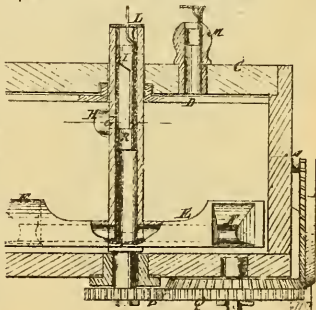
105,749, ELISHA WHITCOMB
DANIEL A. GUNN.
LAND-ROLLERS.

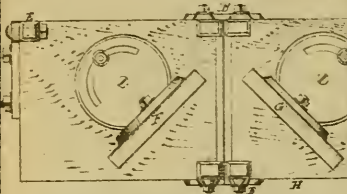
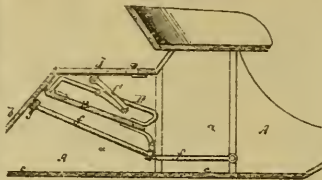
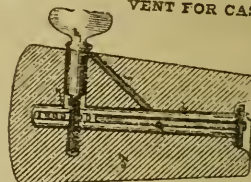
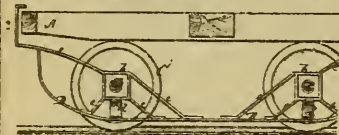
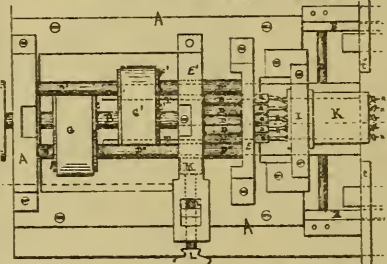
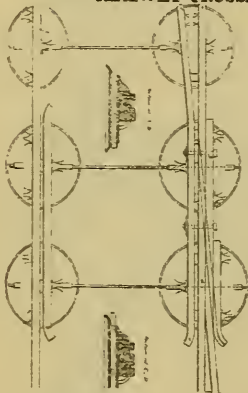
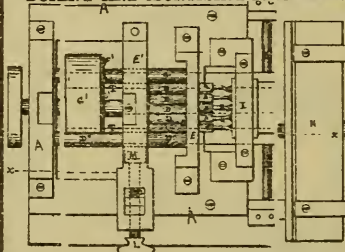
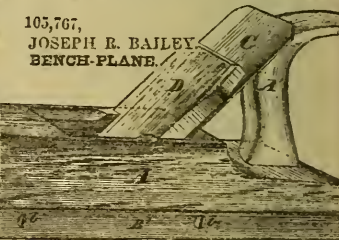
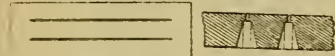
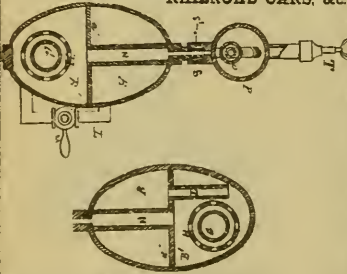
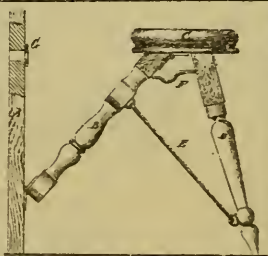
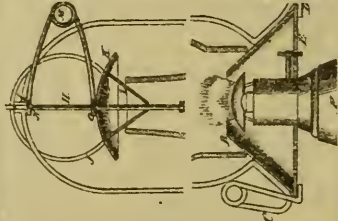
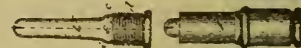
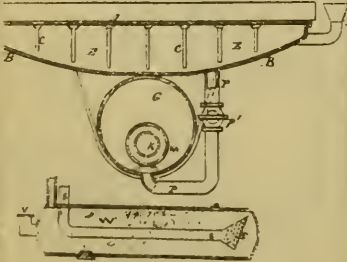
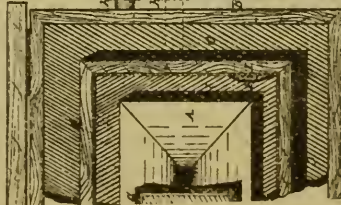
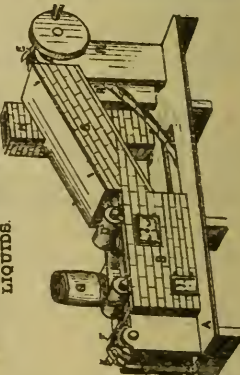
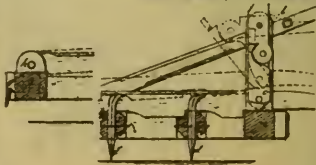


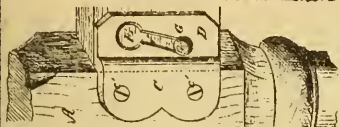
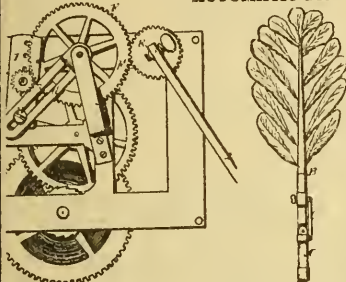
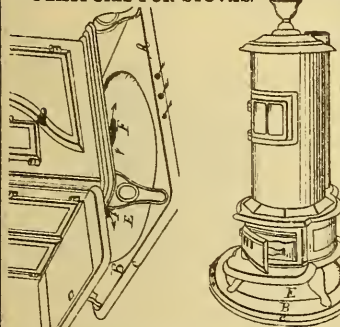
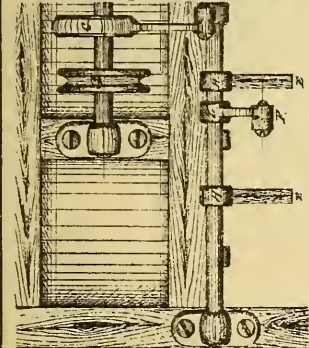
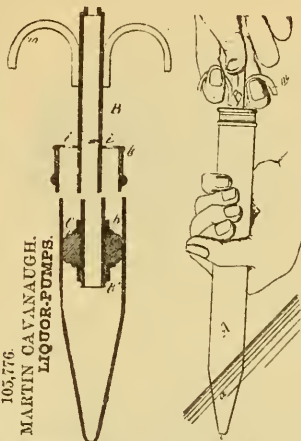
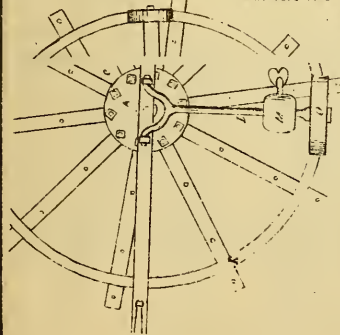
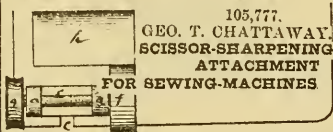
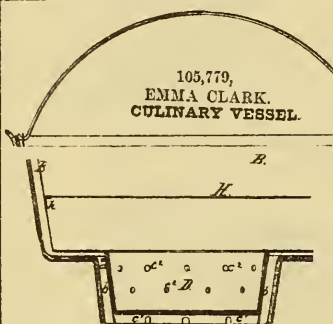
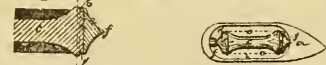
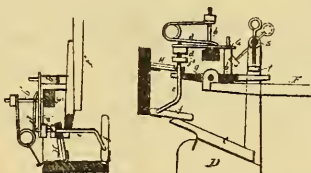
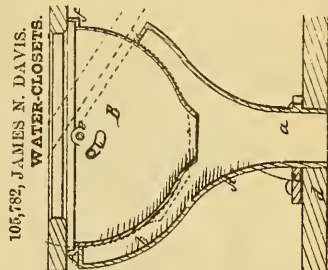
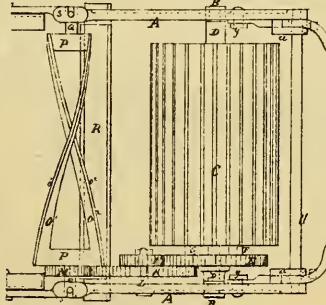
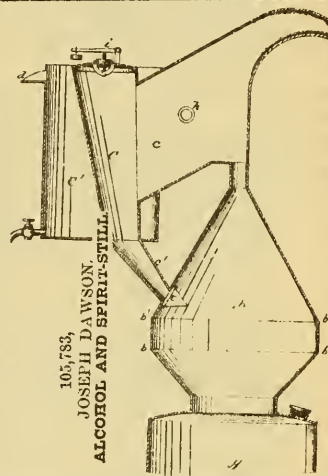
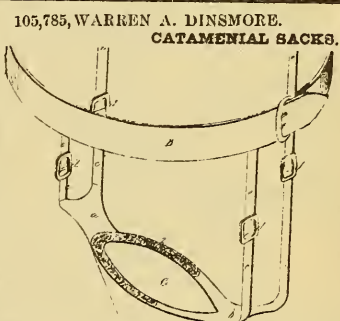
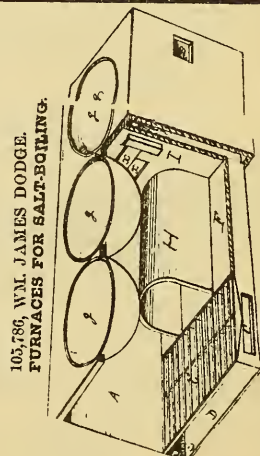
105,750,
J. B. WICKENSTAM, LUBRICATOR.

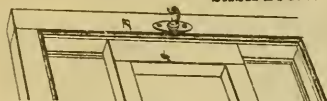
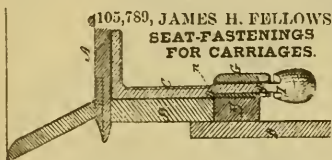
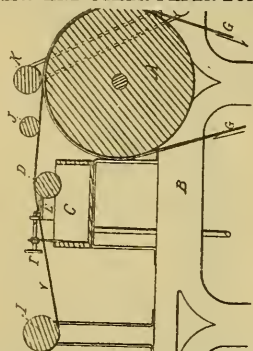
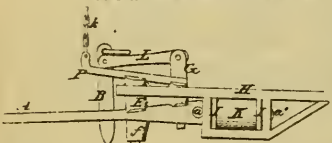
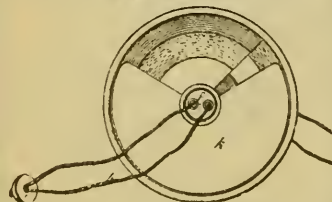
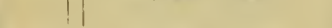
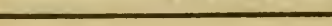
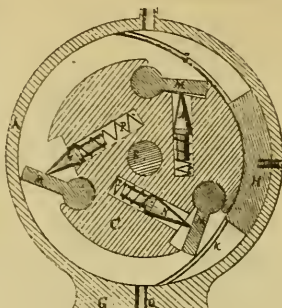
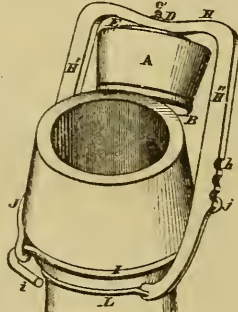
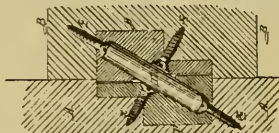


105,751 M. I. WIKOFF CHURNS.

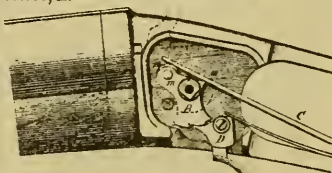
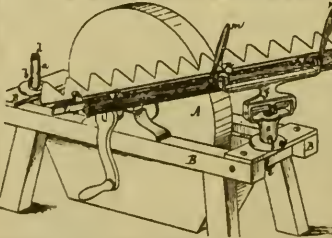
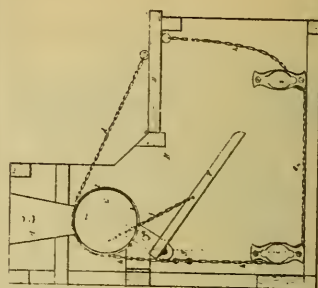
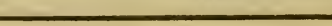
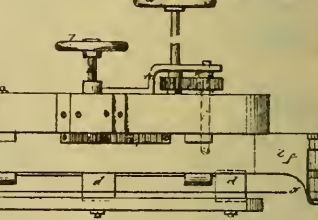
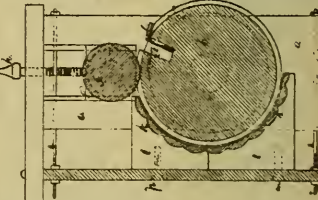
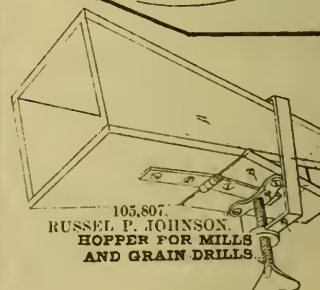
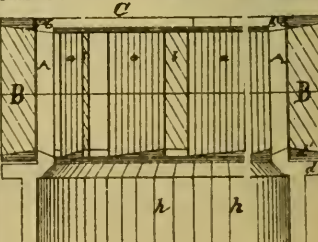


105,752, EDWARD M. WILCOX.
MITER-BOX.105,758, THOMAS B. WOOD.
FOLDING BUGGY-SEAT.105,764, WM. ASCOUGH.
VENT FOR CASES.105,753, JOHN ATWATER WILKINSON.
SAFETY-GUARD FOR RAILWAY CARS.105,759, BENJ. F. WRIGHT
JOHN ROWE, JR.
PREPARING RAWHIDE FOR USE
IN CHAIR-SEATS.105,765,
THOMAS EDWIN BADEN.
TRAVELING BELT-STOP FOR
MACHINERY.105,754, R. P. WILLIAMS
RAILWAY CROSSINGS.105,760, SIMEON M. WRIGHT.
BORING AND MORTISING-MACHINES.105,766,
JOSEPH R. BAILEY.
BOX-SCRAPER.105,767,
JOSEPH R. BAILEY.
BENCH-PLANE.105,755,
ARTHUR ST. CLAIR WINCHESTER.
METALLIC PLATE-SCREEN FOR
SCREENING PAPER PULP.105,756, JOSEPH S. WOOD.
GAS APPARATUS FOR
RAILROAD CARS, &c.105,761,
JOHN L. YOUNG.
FOLDING COUNTER-STOOL.105,762, MCCLINTOCK YOUNG.
LANTERNS.105,768, JOHN F. BARKER.
GAS-BURNERS.105,757, JOSEPH S. WOOD.
GAS APPARATUS FOR RAILROAD CARS105,763, IGNAZIO ALLEGRETTI.
REFRIGERATOR.105,766, GALEB BATES.
APPARATUS FOR IMMERSING IN
SHINGLES AND OTHER ARTICLES IN
LIQUIDS.105,770, ALBERT B. BAUM, COMBINED
HARROW AND
SHOVEL-CULTIVATOR.

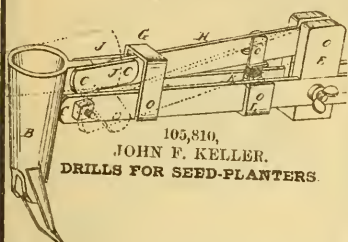
105,771, JOHN BENJAMIN
BEDSTEAD-FASTENING105,772, GEO. H. BRIGGS.
AUTOMATIC FAN.105,773, C. BROWNELL.
PLATFORM FOR STOVES.105,774, HENRY W. BULKLEY.
MACHINE FOR FLOCKING WALL-
PAPER, SHOW-CARDS, &c.105,775, WELCOME J. BURDICK.
HARROWS105,776, MARTIN CAVANAUGH.
LIQUOR-PUMPS.105,777, GEO. T. CHATTAWAY.
SCISSOR-SHARPENING
ATTACHMENT
FOR SEWING-MACHINES105,778 D. M. CHURCH.
SPOOL OF THREAD FOR SEWING-
MACHINE SHUTTLES.105,779, EMMA CLARK.
CULINARY VESSEL.105,780, HUGH ARCHIBALD CLARKE.
ORGANS, MELODEONS, &c.105,781, THOMAS COLDWELL.
GEORGE L. CHADBOEN.
LAWN-MOWERS.105,782, JAMES N. DAVIS.
WATER-CLOSETS.105,783, JOSEPH DANSON.
ALCOHOL AND SPIRIT-STALL.105,784, J. J. DE FREITAS.
CORN-HARVESTER CUTTERS.105,785, WARREN A. DINSMORE.
CATAMENIAL SACKS.105,786, WM. JAMES DODGE.
FURNACES FOR SALT-BOILING.

105,787, GEORGE W. DUBUISSON.
SASH-LOCKS.105,788, HENRY FAKE.
RECTIFYING WHISKY. &c.105,789, JAMES H. FELLOWS.
SEAT-FASTENINGS
FOR CARRIAGES.105,790, B. F. FIELD.
MANUFACTURE OF
STRAW AND OTHER PAPER BOARD.105,791, WILLIAM E. KITTREDGE.
RAILWAY-CAR COUPLING105,792, LUDWIG OTTMAR FRANKE.
CHAMELEON WHIRLIGIG.105,793, MATT. R. FREEMAN.
CARRIAGE-AXLES.105,794, C. R. FREET.
DISH-FASTENER.105,795, J. B. FULLER.
ARGAND
GAS-BURNERS.105,796, WILLARD M. FULLER.
ROTARY ENGINES.105,797, W. H. GIBBS.
BOTTLE-STOPPERS.105,798, ALEX. GRILLET.
BEDSTEAD-FASTENING.

105,799, L. HAILER. GUN-LOCKS.

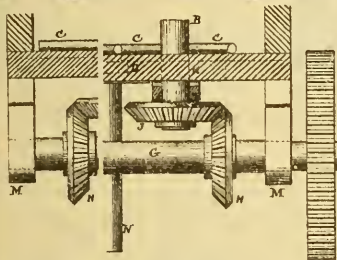
105,800, JOSEPH L. HALL.
LOCK-SPINDLES.105,801, WILLIAM N. HALL.
CARRIAGE-AXLES.105,802, CHAS. O. HARDY. MACHINES
FOR SHARPENING REAPER-KNIVES105,803, GEO. B. JEWETT.
EARTH-CLOSETS.105,804, PHILIP JOBSON.
MICHAEL C. JOBSON.
SAW-MILLS105,805, ASA JOHNSON. MACHINES FOR
BENDING
CORRUGATED-METAL PLATES105,806, ANSON B. JOHNSON.
FIRE-PLACE.105,807, RUSSEL P. JOHNSON.
HOPPER FOR MILLS
AND GRAIN DRILLS105,808, JACOB O. JOYCE.
CASES FOR TURBINE WATER-WHEELS.

105,809, WILLIAM H. F. KEHRWIEDER.
COMPOSITION FOR "ENCAUSTIC
PAINTING."

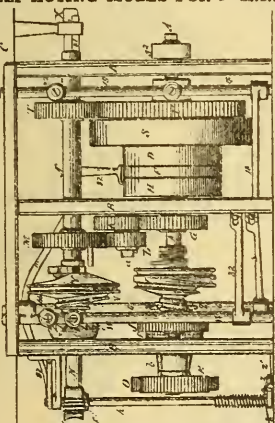


105,810,
JOHN F. KELLER.
DRILLS FOR SEED-PLANTERS.

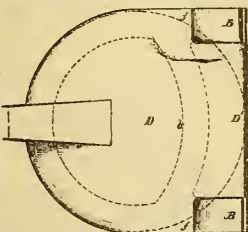
105,811, JOHN F. KELLER. FERTILIZER-
ATTACHMENT TO SEEDING-MACHINES.



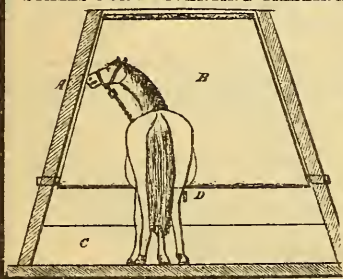
105,812, PRENTISS J. KENT.
N. W. BANCROFT.
SELF-ACTING MULES FOR SPINNING.



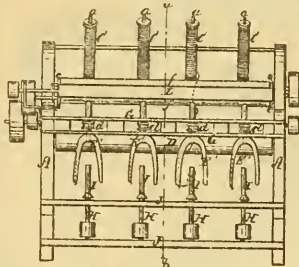
105,813,
LUCIUS J. KNOWLES.
VALVES AND
FOR STEAM AND
OTHER PUMPS.



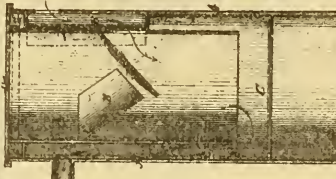
105,814, JOHN KRAUS.
STALLS FOR PREVENTING CREEPING



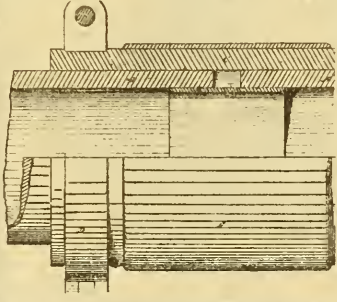
105,815, WILLIAM LA BANISTER.
LORENZO V. DAGGETT.
SPINNING-MACHINES.



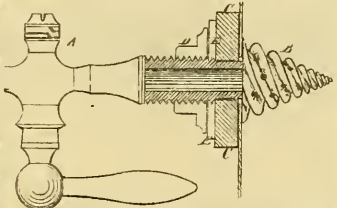
105,816, SILAS HOFFMAN LA RUE.
HEATING-STOVE.



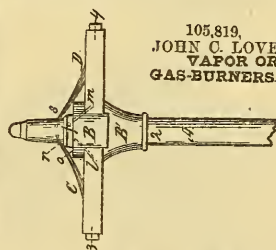
105,817, WM. A. LIGHTHALL.
PIPE-COUPPLINGS.



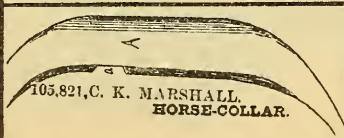
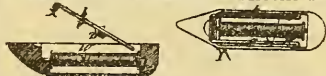
105,818, JAMES H. LORD. FAUCETS.



105,819,
JOHN C. LOVE.
VAPOR OR
GAS-BURNERS.

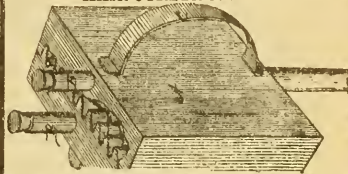


105,820, LUCIUS LYON.
SHUTTLE FOR SEWING-MACHINES.

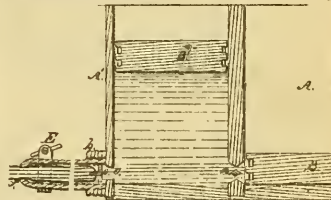


105,821, C. K. MARSHALL.
HORSE-COLLAR.

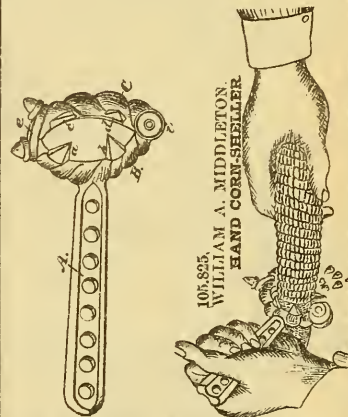
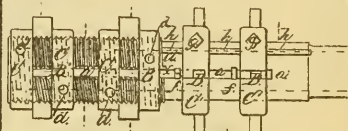
105,822, ELISHA MATTHEWSON. COMBINED
HAIR-CURLER AND CRIMPER.



105,823, J. A. MCLELLAND.
PROCESS FOR COATING OBJECTS WITH
COLLODION AND ITS COMPOUNDS.

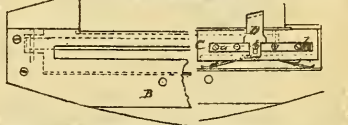


105,824, WILLIAM H. McMILLAN.
DAVID MORRIS.
TURNING DEVICES.



105,825,
WILLIAM A. MIDDLETON.
HAND CORN-SHELLER.

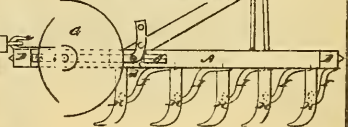
105,826, ABRAHAM MILLER.
URIAH FARIS.
WEATHER-BOARD SCRIBE.



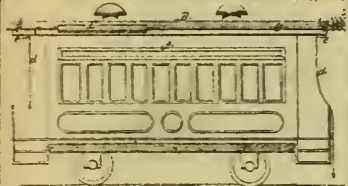
105,827, CHARLES H. MILLER. WRENCH.



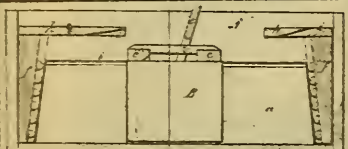
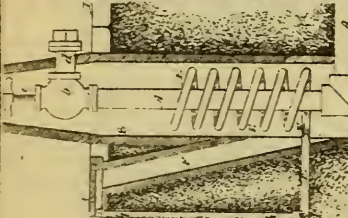
105,828, ISAAC MILLER.
CULTIVATOR.



105,829, JAS. H. MONCE.
AWNINGS FOR CARS, &c.

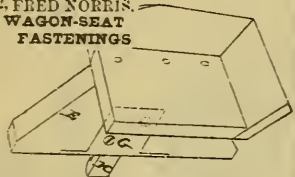


105,830, JAMES C. MOORE.
AND FIRE-PLUGS.
THAWING DEVICES FOR HYDRANTS



105,831, HENRY J. MORELAND.
WASHING-MACHINE.

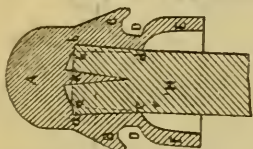
105,832, FRED NORRIS.
WAGON-SEAT
FASTENINGS



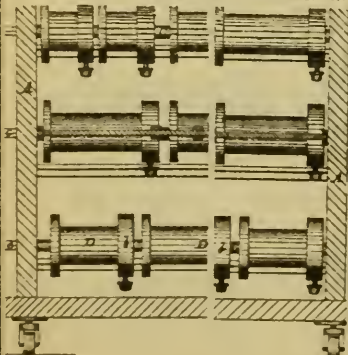
105,833, SHERMAN R. NYE.
HORSE HAY-RAKES.



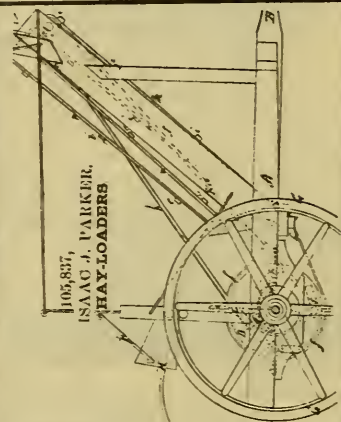
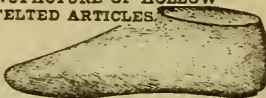
105,834, SAMUEL OAKMAN.
TELEGRAPH-INSULATORS



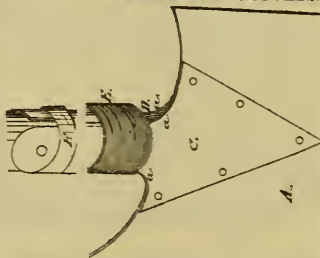
105,835, G. W. PAGETT.
SHOW-CASE FOR RIBBONS, &c.



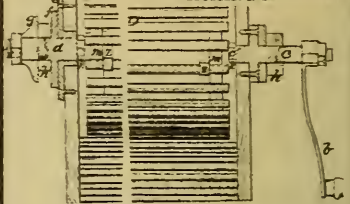
105,836, CHAS. W. PALMER.
HENRY E. PALMER.
CHS. HOUGHTON.
MANUFACTURE OF HOLLOW
FELTED ARTICLES



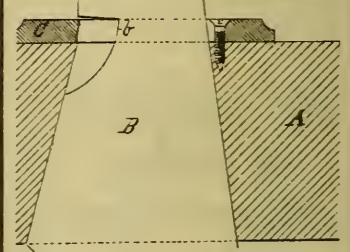
105,838, JOHN W. PEARCE.
SPADES AND SHOVELS.



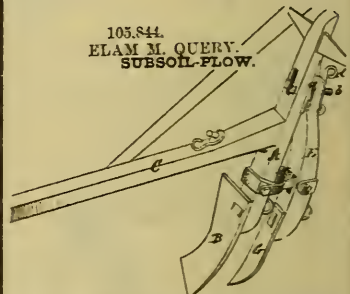
105,842, DANIEL B. POND.
WASHING-MACHINE.



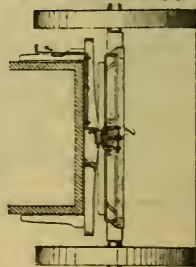
105,843,
SAMUEL W. POPE.
FLOWS.



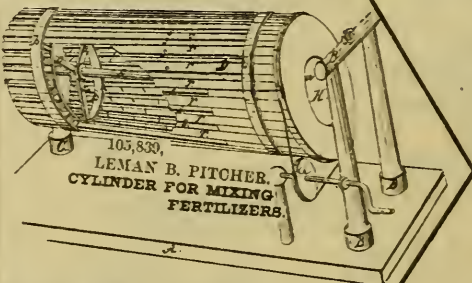
105,844,
ELAM M. QUERY.
SUBSOIL-FLOW.



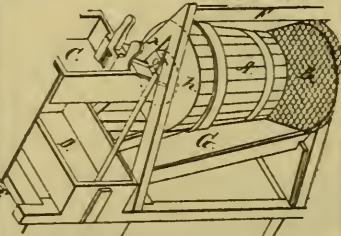
105,845, HENRY RACINE.
BRAKE FOR WAGONS.



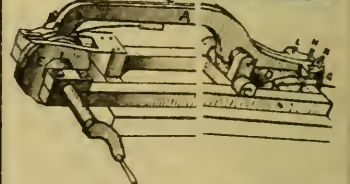
105,839,
LEMAN B. PITCHER.
CYLINDER FOR MIXING
FERTILIZERS.



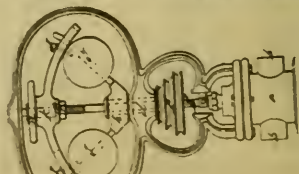
105,840, LEMAN B. PITCHER.
MORTAR-MILLS.



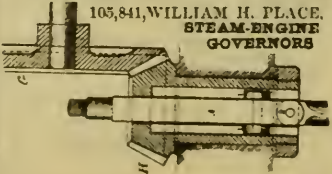
105,846, EDWIN REED
MACHINE FOR PRESSING
SEAMS AND CUTTING WELTS
FOR BOOTS AND SHOES.



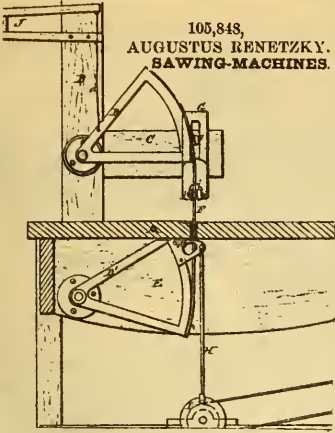
105,847, A. F. REEDER, STEAM-GOVERNOR



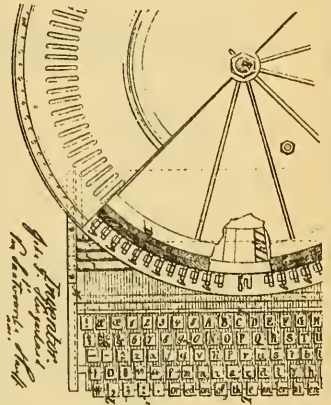
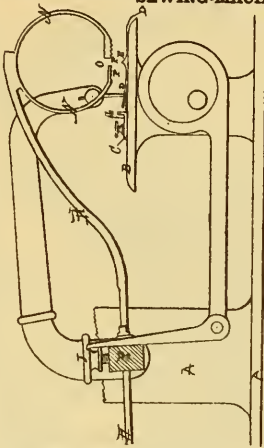
105,841, WILLIAM H. PLACE.
STEAM-ENGINE
GOVERNORS



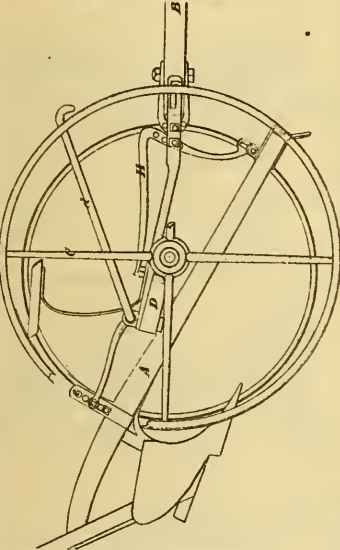
105,848,
AUGUSTUS RENETZKY.
SAWING-MACHINES.



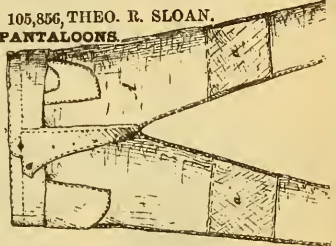
105,852, J. D. SAFFORD.
TUCK-CREASING ATTACHMENT FOR
SEWING-MACHINES.



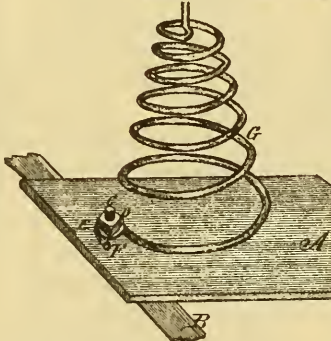
105,849, JAMES H. REYNERSON,
JOHN WORREL.
SULKY ATTACHMENT TO PLOWS.



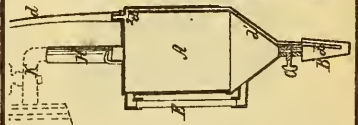
105,856, THEO. R. SLOAN.
PANTALOONS.



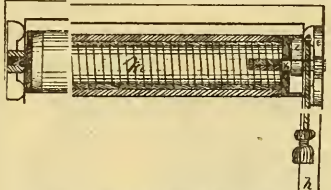
105,853, M. V. B. SHEPARD.
SPRING BED-BOTTOM.



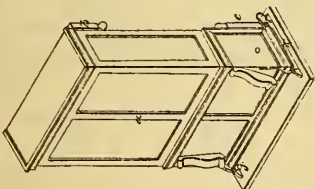
105,857, FRANKLIN H. SMITH.
SAFETY MEASURING-FUNNEL.



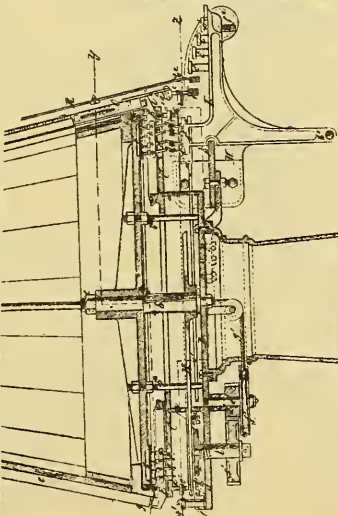
105,854, JOHN SHOREY.
SPRING CURTAIN-FIXTURE.



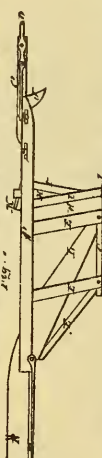
105,850, ANDREW J. ROBERTS.
CABINET-BEDSTEAD.



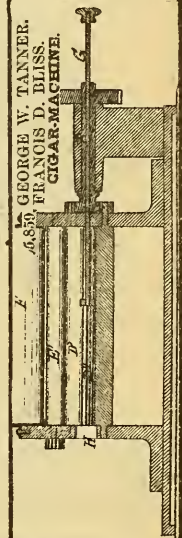
105,853, JOHN T. SLINGERLAND.
TYPE-SETTING MACHINES.



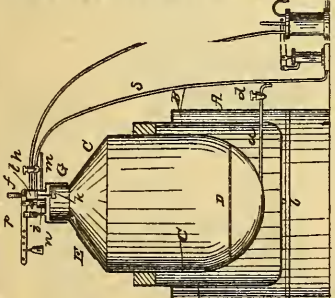
105,858, WILLIAM STACY.
MACHINE FOR DITCHING AND HEDGING.



105,859, GEORGE W. TANNER,
FRANÇOIS D. BLISS.
CIGAR-MACHINE.



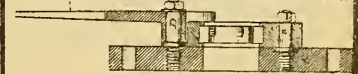
105,851, ADOLPHE ROCK.
CURING AND PRESERVING MEAT, &c.



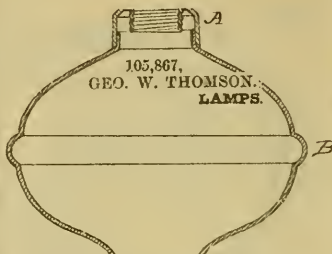
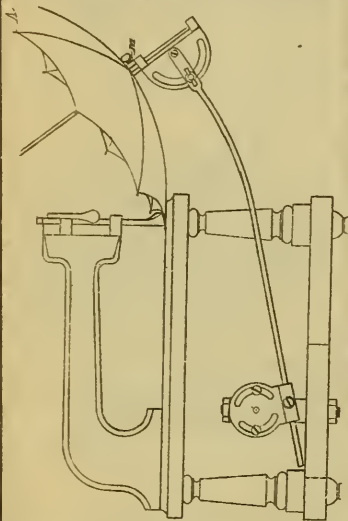
105,860, STEPHEN P. M. TASKER.
CHUCKS.



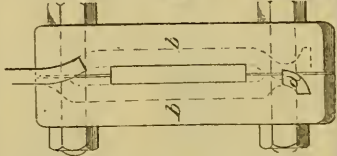
105,861, STEPHEN P. M. TASKER.
DIE-STOCKS.



105,862, WILLIAM JOHN TATE.
MECHANISM FOR RETAINING,
ADJUSTING, AND SEWING PARASOLS.



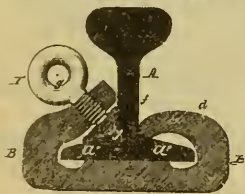
105,863, L. E. TRUESDELL.
CLAMPS FOR BRIDGES.



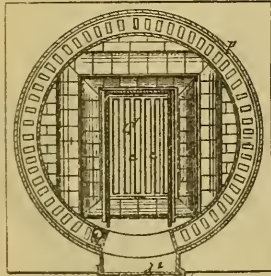
105,869,
CHARLES E. TUCKER.
CARPENTERS' PLANES.



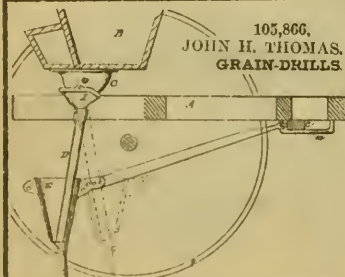
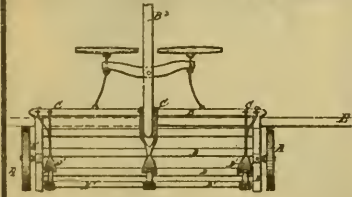
105,863, GEORGE OSCAR TAYLOR.
RAILROAD RAIL-SPLICE.



105,864, GEO. G. THOMAS.
HOT-AIR FURNACE.

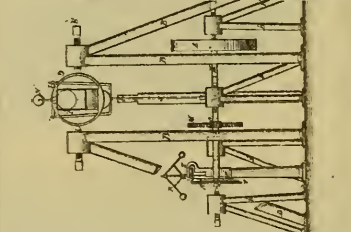


105,865, J. B. THOMAS CORN MARKER.

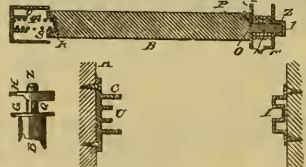


105,866,
JOHN H. THOMAS.
GRAIN-DRILLS.

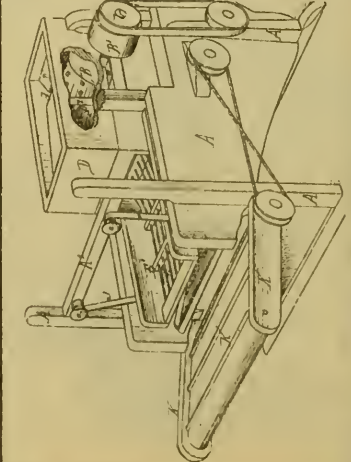
105,870, HORACE WICKHAM, JR.
MACHINE FOR MOTIVE-POWER.



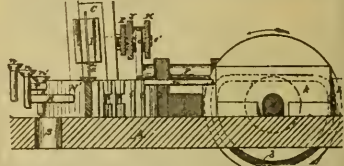
105,871, JOHN H. WILHELM.
CURTAIN-FIXTURE.



105,872, JOHN B. WOLFORD.
CORN-SHELLERS.



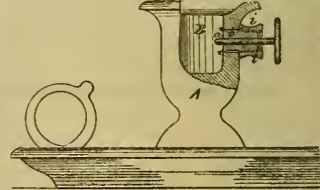
105,873, AURIN WOOD. MACHINE
FOR NICKING SCREW-BLANKS.



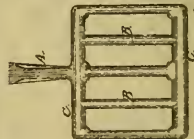
105,874, B. F. WOODSIDE.
PERCUSSION CAPS.



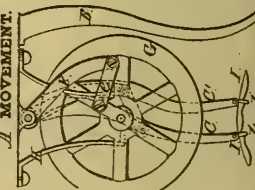
105,875, HENRY ZAHN. CANDLESTICKS.



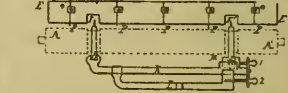
105,876, WILSON W. KNOWLES.
CARRIAGE-STEP.



4,078,
HENRY J. CASE,
NELSON CHAPIN,
CHAS. RICHARDSON.
MECHANICAL
MOVEMENT.



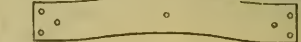
4,079, CYRUS CHAMBERS, JR.
PAPER-FOLDING MACHINES.



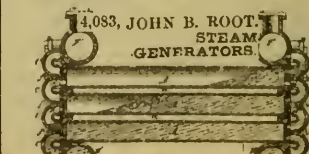
4,080, JOHN G. HADFIELD, M. D.
MEDICAL VACUUM APPARATUS.



4,081, EDWARD HEATON.
SHANK-SPRINGS.



4,082,
JOHN B. ROOT.
STEAM-GENERATORS.



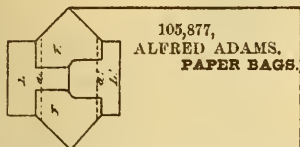
4,083, JOHN B. ROOT.
STEAM-GENERATORS.

ILLUSTRATIONS OF PATENTS

ISSUED FROM

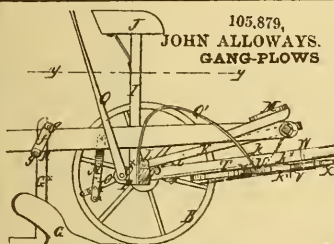
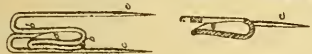
THE UNITED STATES PATENT OFFICE

AUGUST 2, 1870.



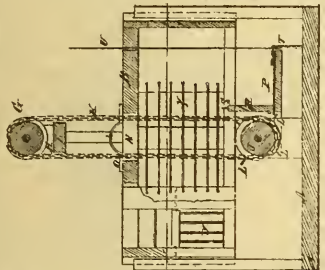
105,877,
ALFRED ADAMS.
PAPER BAGS.

105,878, SAMUEL W. ADAMS.
TWINE AND THREAD-CUTTERS.

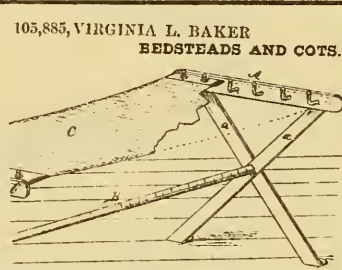


105,879,
JOHN ALLOWAYS.
GANG-PLOWS

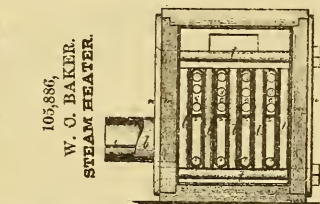
105,880, SAMUEL ARNOLD.
ANIMAL TRAPS.



105,884, HAYDN M. BAKER.
PREPARATION OF PAPER STOCK.

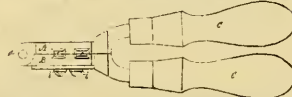


105,885, VIRGINIA L. BAKER
BEDSTEADS AND COTS.

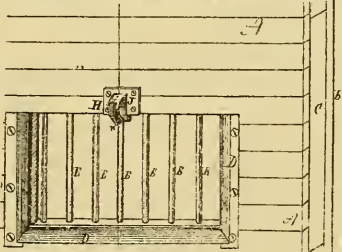


105,886,
W. O. BAKER.
STEAM HEATER.

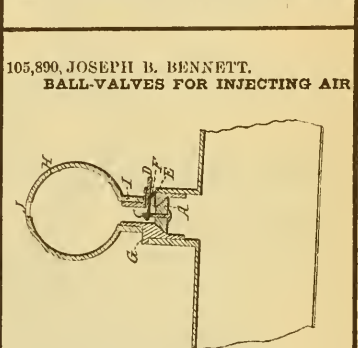
105,887, GREENLEAF BASSETT.
MOLDS FOR CASTING MACKEREL-JIGS.



105,888, JOHN BASSLER SLIDING
DOORS FOR RAILWAY BOX CARS.

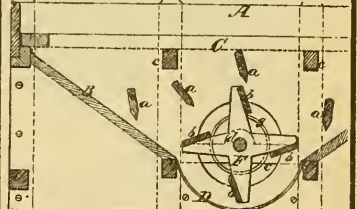


105,889, W. A. BATTERSBY.
MANUFACTURE OF ARTIFICIAL STONE.

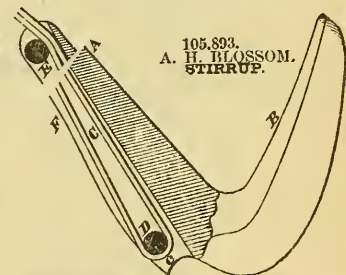
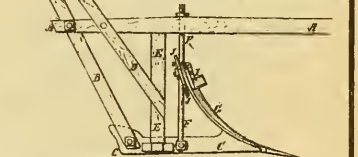


105,890, JOSEPH B. BENNETT.
BALL-VALVES FOR INJECTING AIR.

105,891, LUCIUS S. BLAKE, WOOL-DRIER.

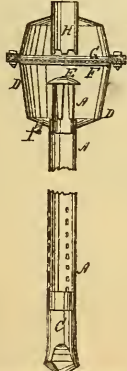


105,892,
WM. H. BLANCHARD CORN AND
COTTON CULTIVATING-PLOW.

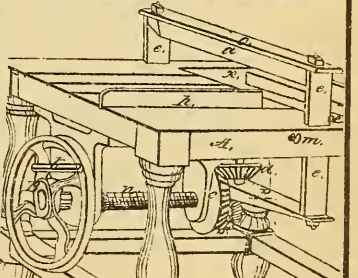


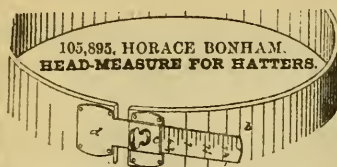
105,893,
A. H. CLOSSOM.
STIRRUP.

105,882, SAMUEL S. AYERS, TUBE-WELLS.



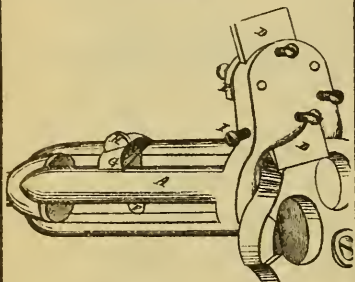
105,894, JOHN BOLE.
PAPER-CUTTING MACHINES.



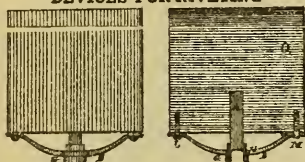


105,895, HORACE BONHAM.
HEAD-MEASURE FOR HATTERS.

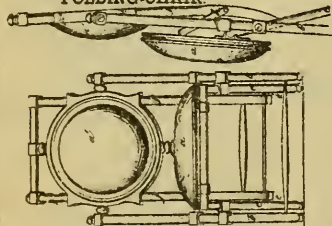
105,896, CHARLES S. BONNEY.
HOLLOW AUGER.



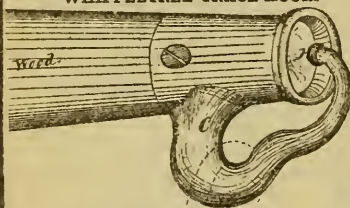
105,897, SAMUEL L. BOWER.
DEVICES FOR RIVETING.



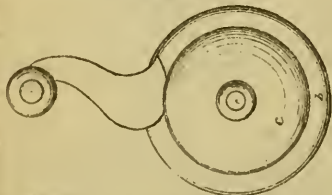
105,898, ASAHEL C. BOYD.
FOLDING-CHAIR.



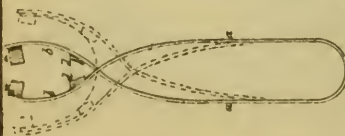
105,899, CHARLES COLLINS BRADLEY.
BENJAMIN F. UPSON.
WHIFFLETREE TRACE-HOOK.



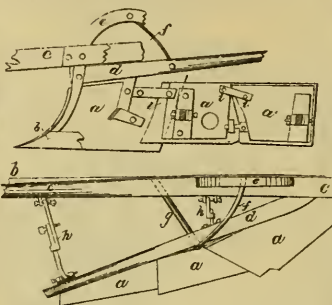
105,900, E. W. BRETTELL.
ATTACHING CAPS
TO BASES OF BELL-LEVERS.



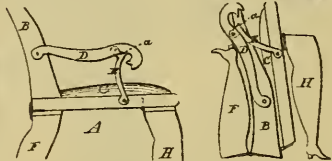
105,901, ADNA BROWN. EGG-HOLDER.



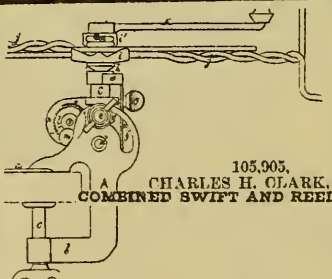
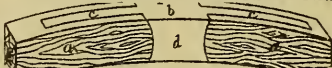
105,902, SAMUEL N. CALDWELL.
GRADING AND DITCHING-PLOWS.



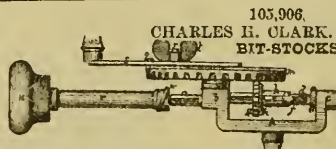
105,903, WALTER E. CAMERON.
FOLDING CHAIRS.



105,904, CHANDLER CHENEY.
COUPLING FOR WHEEL-FELLIES.

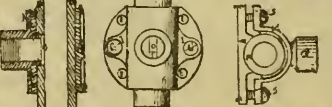


105,905, CHARLES H. CLARK.
COMBINED SWIFT AND REEL.



105,906, CHARLES H. CLARK.
BIT-STOCKS.

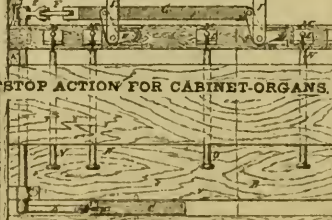
105,907, JOSIAH S. CLARK.
BRANCH ATTACHMENT FOR
WATER-TUBES.



105,908, WM. E. CLARKE.
JOINT FOR TONGS, &c.

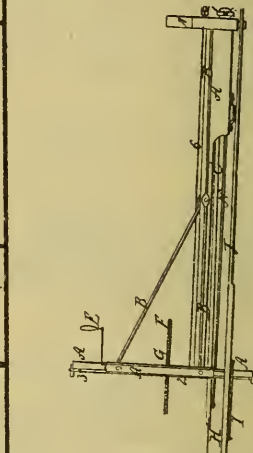
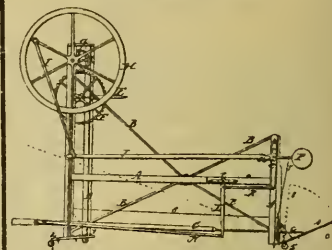


105,909, HENRY A. CLIFFORD.

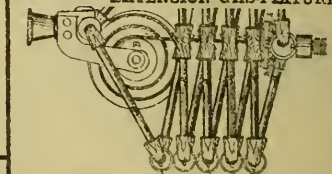


STOP ACTION FOR CABINET-ORGANS.

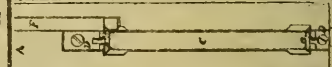
105,910, WM. M. COCHRAN.
SAWING-MACHINE.



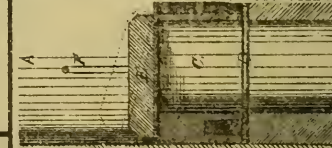
105,911, HENRY COESTER.
EXTENSION GAS-PICTURES.



105,912, NATHAN T. COFFIN.
MACHINE FOR SECURING
SHEET-METAL LINING IN PUMP-STOCKS.



105,913, NATHAN T. COFFIN.
PUMP-VALVES.



105,914, MOSES M. COHEN. CHIGNONS.



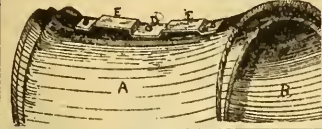
105,915, JESSE C. COLEMAN.
GEORGE STRAYER.



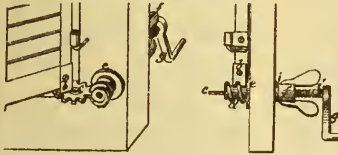
WIND-WHEELS.

105,916, JOHN CONZELMAN.
COUGH-SIRUP.

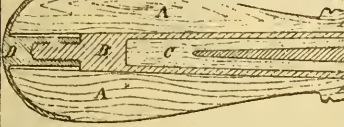
105,917, DEXTER CURTIS
HORSE-COLLAR CAP



105,918, GEORGE L. DANFORTH.
SHUTTER-WORKERS.



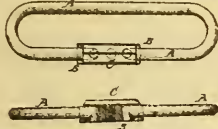
105,919, JOHN B. DAVIDS.
TOOL-HANDLES.



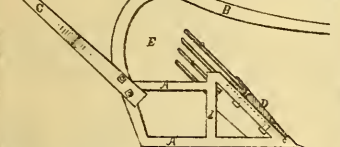
105,920, FREDERICKE DECKER.
SEED-HARVESTERS.



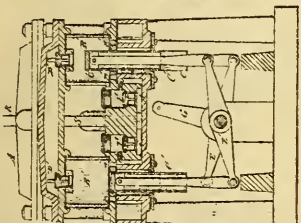
105,921, A. J. DEXTER
ADJUSTABLE LINK.



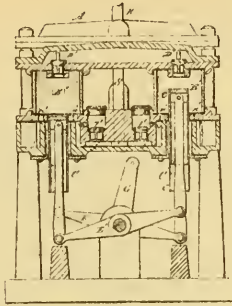
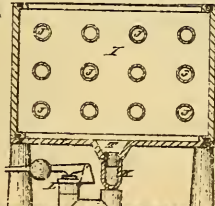
105,922, JAMES M. DICK.
FRAMES FOR POTATO-DIGGERS AND
SHOVEL-PLOWS



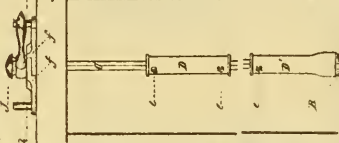
105,923, JULES DUVAL.
PROCESS OF SEPARATING FIBERS
FROM COTTON-SEED



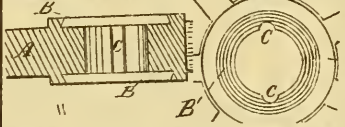
105,924, W. T. DUVAL
MACHINERY FOR THE MANUFACTURE
OF ICE.



105,925, JAMES C. EASTMAN
STOP-PLATES FOR HYDRANTS



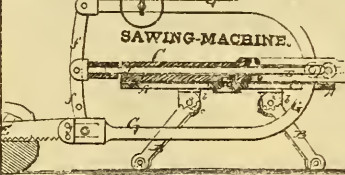
105,926, WM. F. EHLERS, WHEEL-HUB.



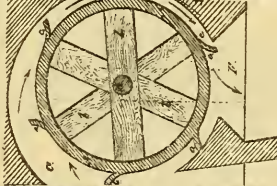
105,927, E. K. ELLIOTT,
URI J. BAXTER.
CLOTHES-LINE FASTENER



105,928, JAMES ANTHONY ELSTON.



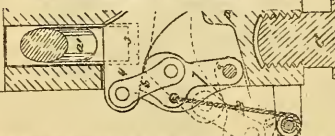
105,929, ENOS EMERSON.
TURBINE WATER-WHEELS



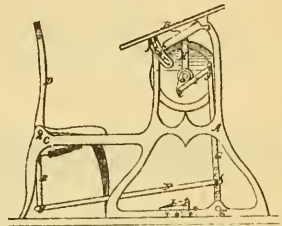
105,930, V. FOLAND.
TRAVERSING MACHINE.



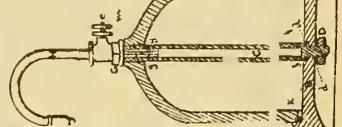
105,931, J. FOSTER, JR.
BOAT DETACHING APPARATUS.



105,932, S. CONANT FOSTER
MODE OF OPERATING SEWING
AND OTHER MACHINES.



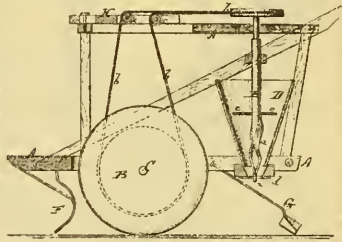
105,933, SODA-FOUNTAIN.
ELISHA M. FOWLER



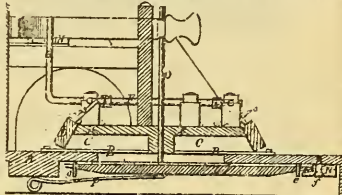
105,934, M. C. GARDNER.
MODE OF AND DEVICES FOR MAKING
GASKETS FOR STEAM PACKING.



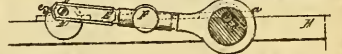
105,935, THOMAS C. GARLINGTON.
COTTON-SEED PLANTER



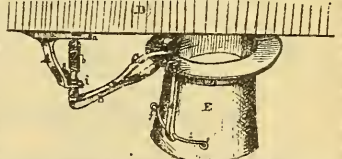
105,936, WILLIAM H. GERRISH.
REED MUSICAL INSTRUMENTS.



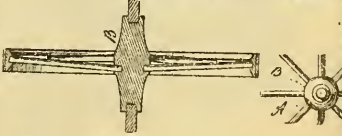
105,937, HENRY J. HANCOCK.
DEVICE FOR TRANSMITTING
ROTARY MOTION.

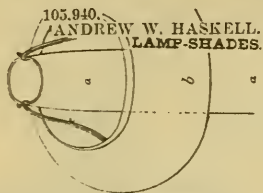


105,938, J. R. HARTMANN.
MARTAN KAIS.
HAT AND CAP-HOLDER AND BRACKET.



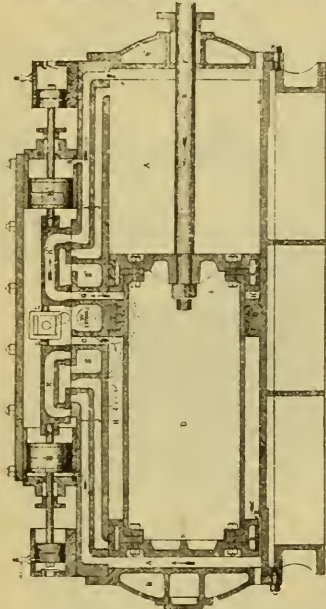
105,939, GEORGE HARRIS.
WHEELBARROW-WHEELS.



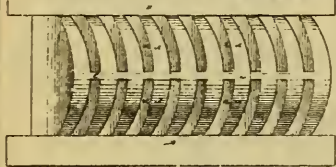


105,940.
ANDREW W. HASKELL.
LAMP-SHADES.

105,941, WILLIAM M. HENDERSON.
DIRECT-ACTING COMPOUND ENGINE.



105,942, MARK HODGSON, GRATE-BAR.



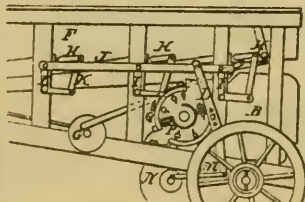
105,943, WM. H. HOLLAND.
PADDLE-WHEELS.



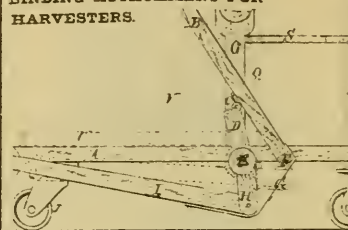
105,944, A. H. HOPSON, TRACE-BUCKLE.



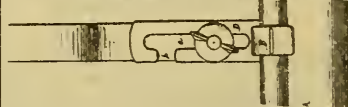
105,945, MONROE HURDELL.
GRAIN-THRASHING AND
CLOVER-HULLING MACHINES.



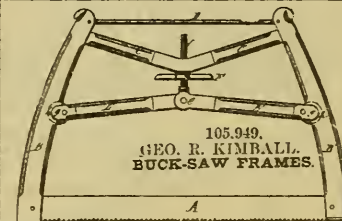
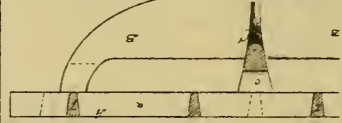
105,946, F. B. ISETT.
BINDING ATTACHMENT FOR
HARVESTERS.



105,947, JACOB J. KAUFFMAN.
EAVES-TROUGH HANGERS.

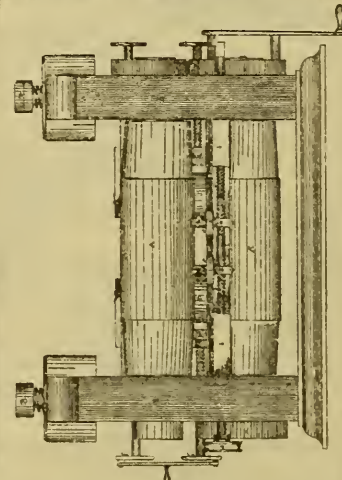


105,948, WILLIAM KEARNEY.
GRATE-BARS.

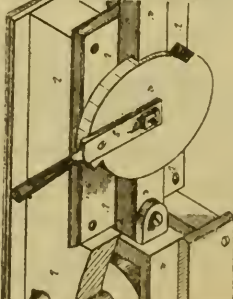


105,949,
GEO. R. KIMBALL.
BUCK-SAW FRAMES.

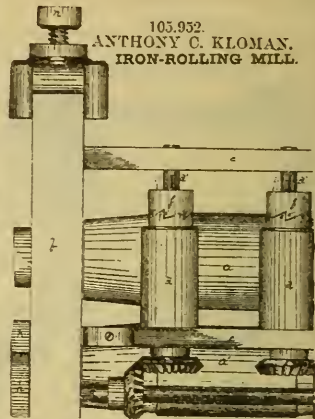
105,950, ANDREW KLOMAN.
MACHINE FOR ROLLING METALS.



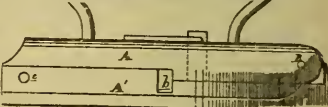
105,951, ANDREW KLOMAN.
MECHANICAL MOTION



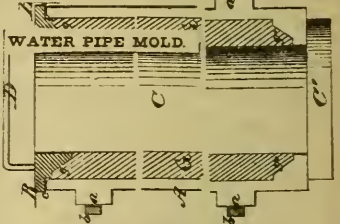
105,952,
ANTHONY C. KLOMAN.
IRON-ROLLING MILL.



105,953,
MYRON H. KNAPP.
FLUTING AND SAD-IRON.



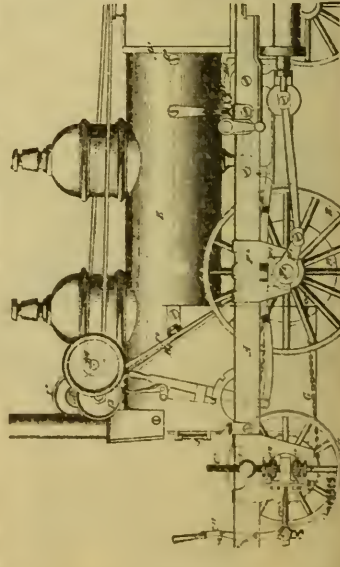
105,954, H. KNIGHT.



105,955, R. O. KNOWLES.
SLIDING WAGON-SEAT.

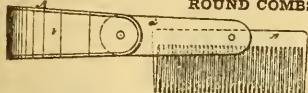


105,956, JAMES K. LAKE.
TRACTION-ENGINE.



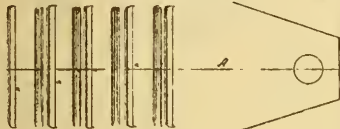
105,957, GEO. T. LINCOLN.

ROUND COMBS.



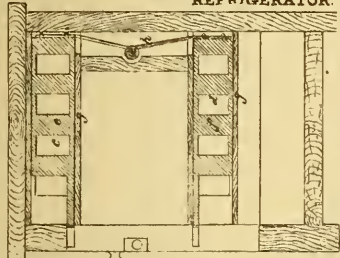
105,958, JOHN LUSHER.

VEGETABLE-CUTTERS



105,959, WILLIAM B. MASON.

REFRIGERATOR.

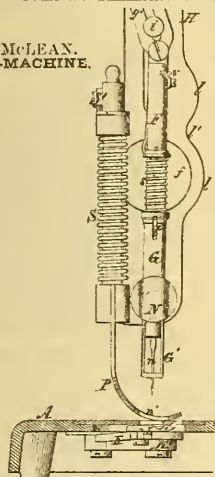


105,960 WILLIAM A. MAURAN.

MANUFACTURE OF CARPET-LINING.

105,961.
JNO. N. McLEAN.

SEWING-MACHINE.



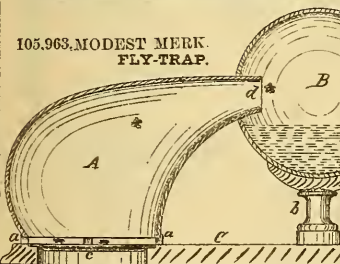
105,962 FENTON A. MEREDITH.

RAILWAY RAILS.

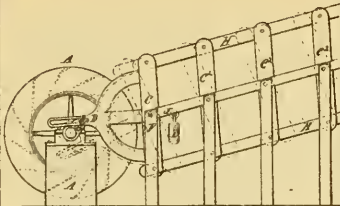


105,963, MODEST MERK.

FLY-TRAP.

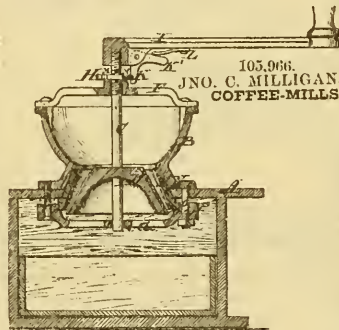
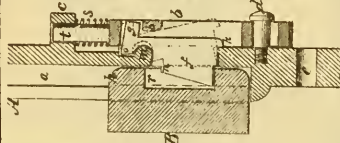


105,964, CHARLES H. MILLER

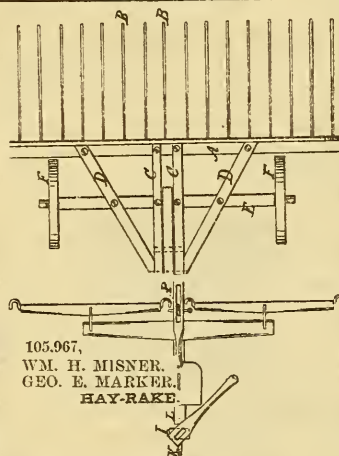
MEANS FOR COMMUNICATING
MOTION TO MACHINERY

105,965, EZRA MILLER.

CAR-SEAT LOCKS.

105,966.
JNO. C. MILLIGAN.

COFFEE-MILLS.



105,967,

WM. H. MISNER.

GEO. E. MARKER.

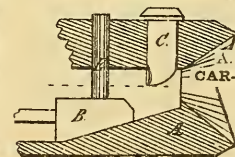
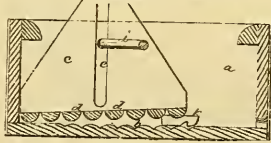
HAY-RAKE

105,968, CONRAD F. MOLL.

MANUFACTURE OF PURE
CARBONATE OF POTASH.

105,969, JEREMIAH A. MORELOCK.

WASHING-MACHINE.



105,970,

A. T. NORGAN.

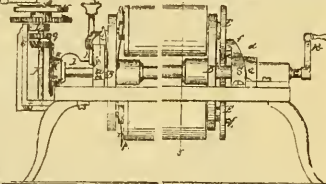
CAR-COUPINGS.

105,971 JAMES M. OSGOOD.

APPARATUS FOR AUTOMATICALLY
REGULATING THE FLOW OF
GAS USED IN HEATING VULCANIZERS.

105,972, AMÉDÉE PAILLARD.

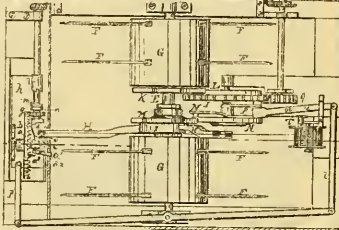
MUSICAL BOXES.

105,973.
ISAAC H. PALMER.

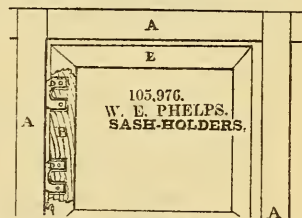
HARVESTERS.

105,974. W. H. PAYNE.

GRAIN BINDER.

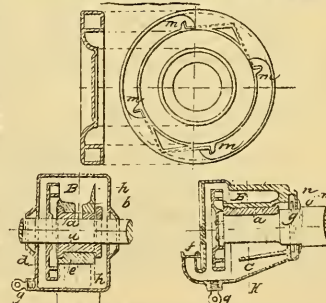


105,975, FREDERIC M. PERRY.

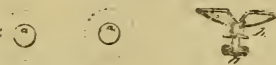
CUT-OFF FOR RELAYS AND OTHER
ELECTRO-MAGNETIC INSTRUMENTS.105,976.
W. E. PHELPS.

SASH-HOLDERS.

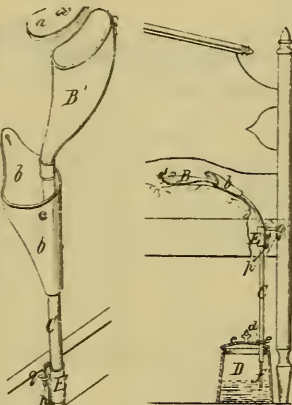
105,977, J. M. PIET.

LUBRICATING APPARATUS FOR
AXLE AND JOURNAL-BOXES.

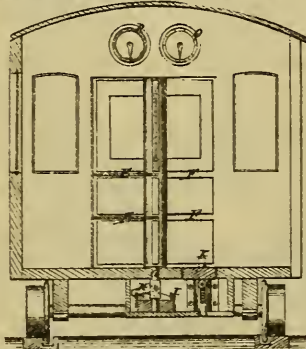
105,978. SAMUEL M. PORTER.
EYELETS FOR FASTENING BUTTONS.



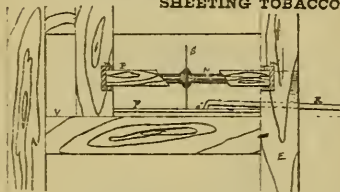
105,979. DANIEL PROFF.
URINAL ATTACHMENT TO A BED.



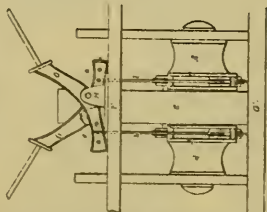
105,980. JOHN RHODS.
PASSENGER-REGISTER FOR VEHICLES.



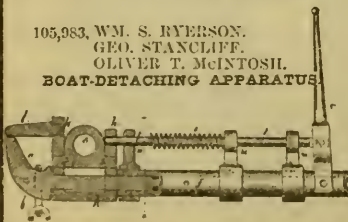
105,981. G. W. RUCKER.
O. C. SWAN. MACHINE FOR
T. W. RUCKER. PRESSING AND
SHEETING TOBACCO



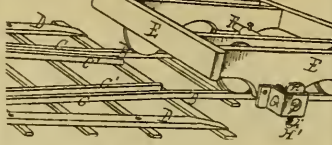
105,982.
ALBERT RUSSELL.
WINDLASSES.



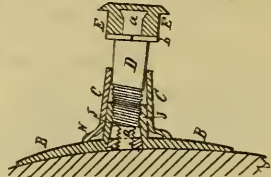
105,983. WM. S. RYERSON.
GEO. STANCLIFF.
OLIVER T. MCINTOSH.
BOAT-DETACHING APPARATUS.



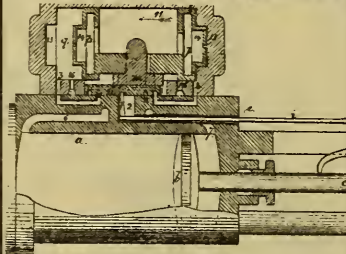
105,984. ADDISON V. SANFORD.
ADJUSTABLE RAILWAY TRUCKS.



105,985. ANSON SEARLS.
TOP-PROPS FOR CARRIAGES.



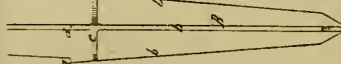
105,986. WM. C. SELDEN.
VALVES FOR STEAM-ENGINES.



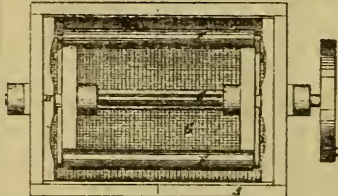
105,987. F. C. SENSEMAN. PAPER-FILES



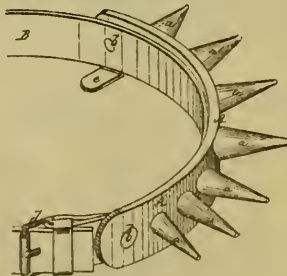
105,988. C. J. SHUTTLEWORTH.
FENCE-POSTS.



105,989. GEO. SIDLEY.
SIFTING-MACHINES



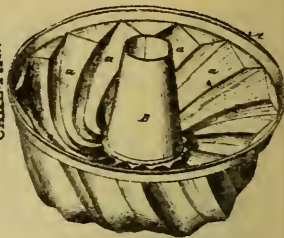
105,990. JOHN SMITH.
INTERFERING-PAD FOR HORSES.



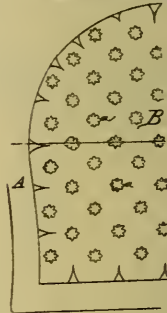
105,991. J. HARRY SMITH. CAKE-PANS.



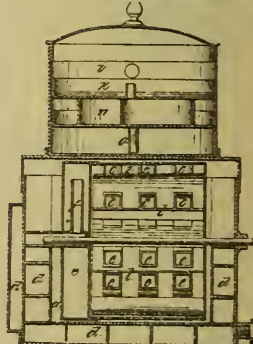
105,992.
J. HARRY SMITH.
CAKE-PAN.



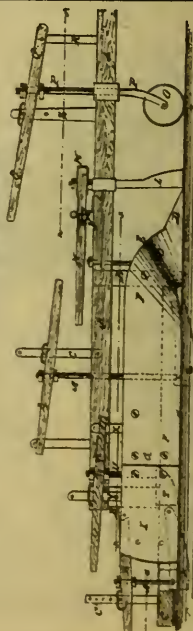
105,993. SILAS ALLEN SNYDER.
METALLIC CHAIR-SEAT.



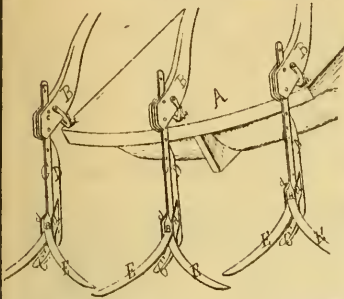
105,994.
JAMES F. SPENCE.
APPARATUS FOR
CARBURETING AIR.



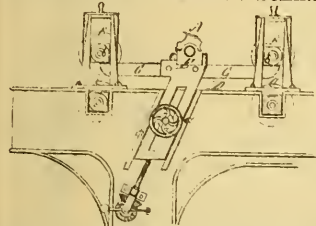
105,995.
ANDREW J. STEPHENS.
DITCHING-MACHINE.



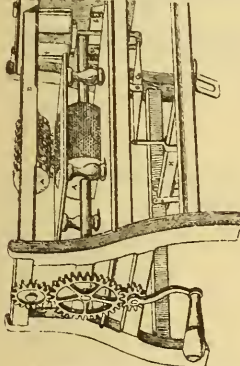
105,996, PETER J. STONE.
APPARATUS FOR CUTTING
GRASS UNDER WATER.



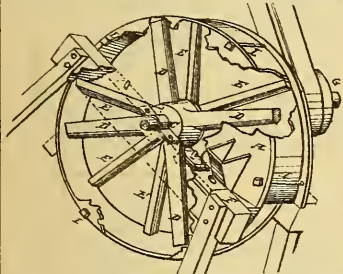
105,997, WILLIAM TEAL.
PLANING-MACHINE.



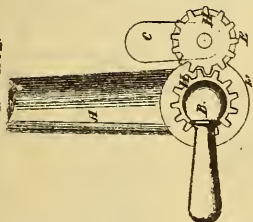
105,998, EDWIN THOMAS.
MACHINE FOR CUSHIONING
AND VENTILATING LEATHER.



105,999, WILLIAM CARROLL THOMPSON.
SMUT-MILLS.



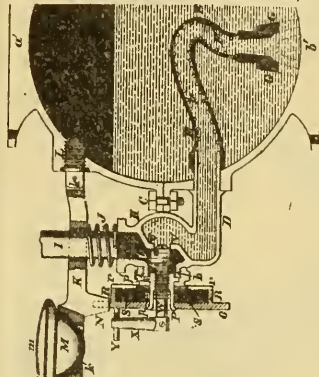
106,000,
HENRY B. TIFFANY.
FAUCETS.



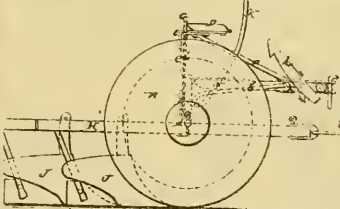
106,001, FREDERICK H. TREVITHICK, JR.
RAILWAY CAR-WHEEL.



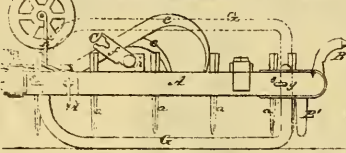
106,002, W. P. VAN DEURSEN.
WILLIAM C. DAVIS.
AUTOMATIC FIRE-EXTINGUISHERS
FOR RAILROAD CARS, &c



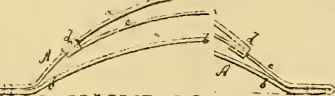
106,003, JAMES L. VAN GORDER.
SULKY-FLOWS



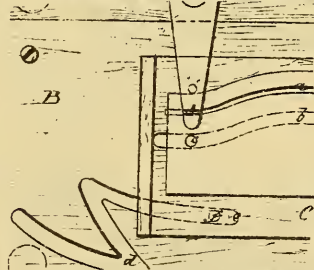
106,004, JACOB R. WAGNER.
COMBINED HARROW, CULTIVATOR,
WHEELBARROW, AND SLED.



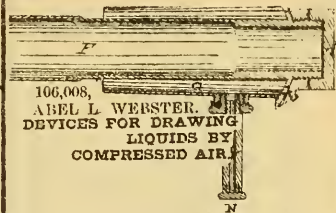
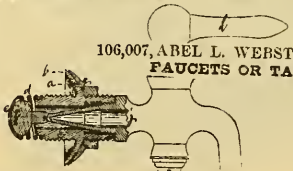
106,005, ROBERT E. WALKER.
CARRIAGE-SPRINGS.



106,006, G. A. WATKINS. SAW-TABLE
FOR SAWING IRREGULAR FORMS.

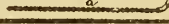


106,007, ABEL L. WEBSTER.
FAUCETS OR TAPS.

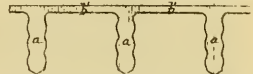


106,008,
ABEL L. WEBSTER.
DEVICES FOR DRAWING
LIQUIDS BY
COMPRESSED AIR.

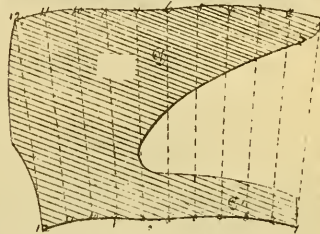
106,009, WILLIAM WICKERSHAM.
HAIR-PIN.



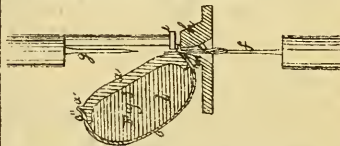
106,010, WILLIAM WICKERSHAM.
MEANS OF ATTACHING THE
SOLES TO BOOTS AND SHOES.



106,011, WILLIAM WICKERSHAM.
WIRE-DRIVING MACHINE FOR
MANUFACTURING BOOTS AND SHOES



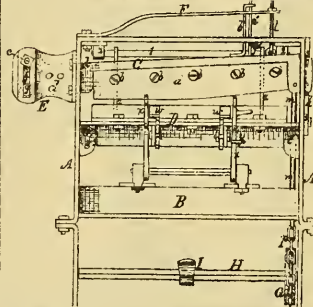
106,012, W. WICKERSHAM
MANUFACTURE OF BOOTS AND SHOES



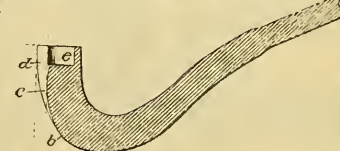
106,013,
WILLIAM WICKERSHAM,
BOOTS AND SHOES.



106,014 WILLIAM WIDDOWSON.
STAVE-JOINTING MACHINE.



106,015 B. B. WOOD. SPIKE-DRAWER.



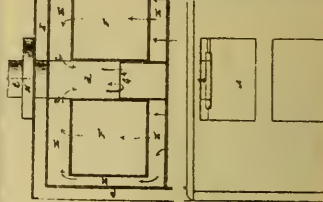
106,016, ROYAL L. WOODBURY.
LAP-BOARD FOR DRESS-MAKERS.



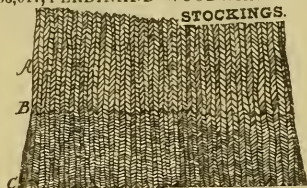
106,021, JAMES H. ANDERSON.
BROOMS, &c.



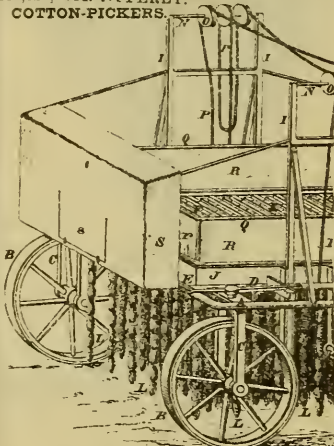
106,027, DANIEL BOSWORTH.
COOKING-RANGE.



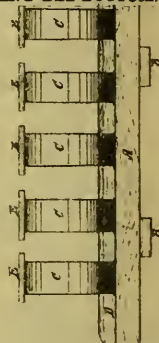
106,017, FERDINAND WOODWARD.
STOCKINGS.



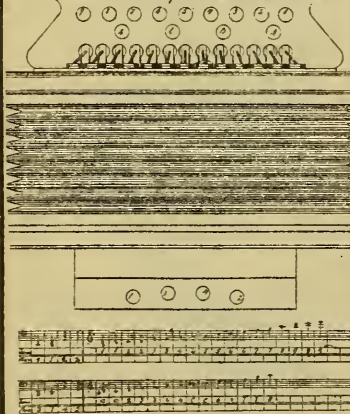
106,022, WM. APPERLY.
COTTON-PICKERS.



106,028, SILAS M. BROOKS.
SPRING BED-BOTTOM.



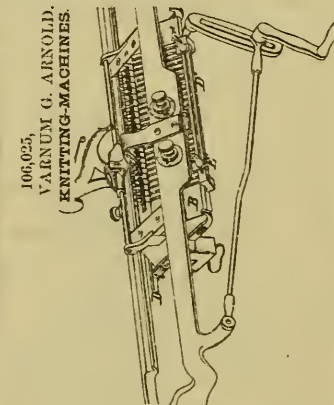
106,018,
CARL FRIEDRICH ZIMMERMANN.
ACCORDEONS.



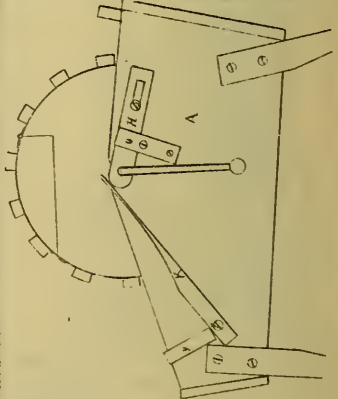
106,023, JOSEPH F. APPLEGATE. BUNGS.



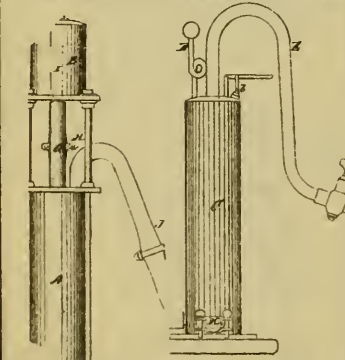
106,024, EUGENE ARNHEIM.
FABRIC FOR HEAD-COVERINGS.



106,029, DANIEL BROY
WASHING-MACHINE.



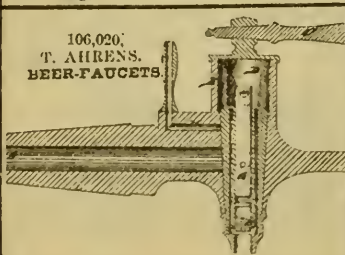
106,019, T. AHRENS.
PRESERVING AND DELIVERING BEER,
ALE, &c. ON DRAUGHT BY
MEANS OF CARBONIC-ACID GAS.



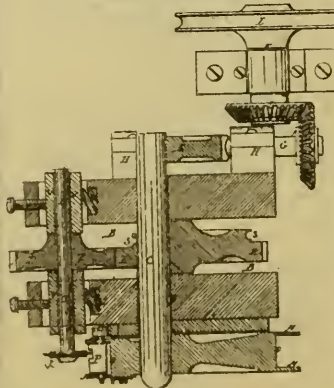
106,030, ANDREW BURKE.
BOOTS AND SHOES.



106,020,
T. AHRENS.
BEER-FAUCETS.

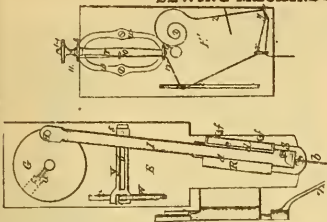
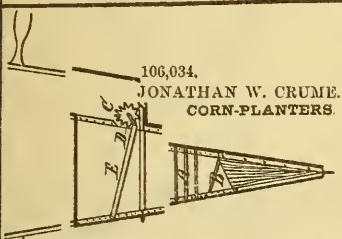
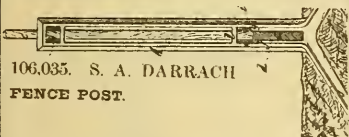
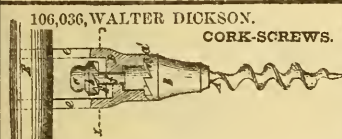
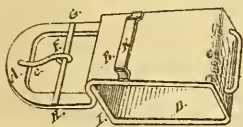
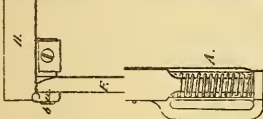
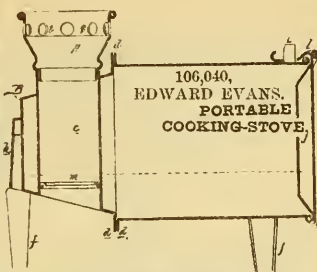
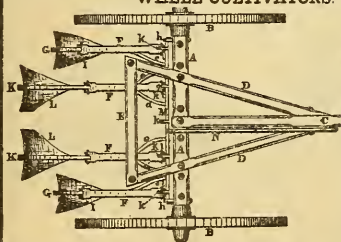
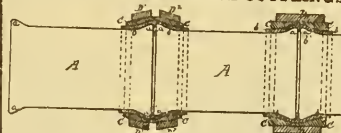
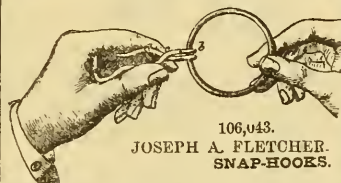
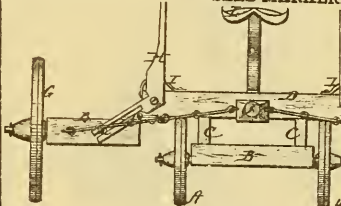
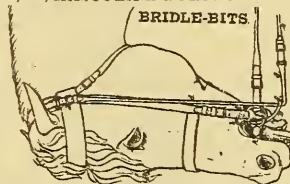
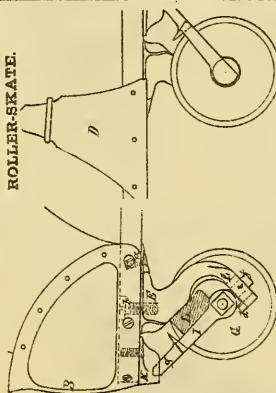
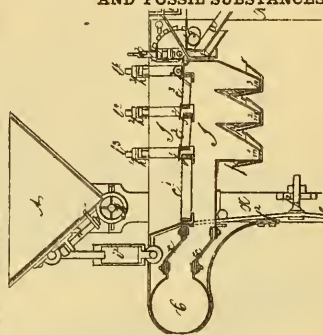
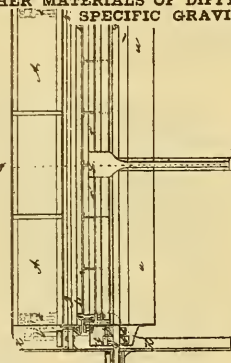
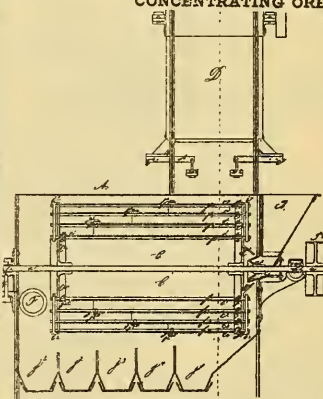
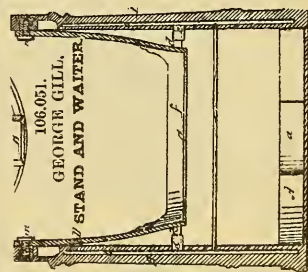


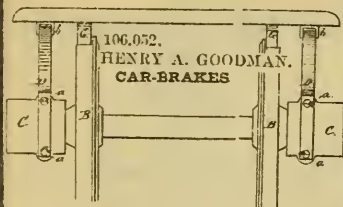
106,026, JOS. B. BLANCHARD.
MACHINES FOR
MANUFACTURING NEEDLES.



106,031,
ETHAN R. CHENEY,
JOHN J. EMERY.
CABLE-STOPPERS.

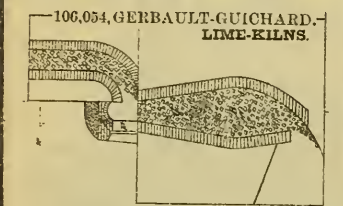


106,032, JOHN V. COON.
SEWING-MACHINES.106,033, WM. E. CRANDALL.
HANDLES FOR CHILDREN'S
CARRIAGES AND
PERAMBULATORS.106,034,
JONATHAN W. CRUME.
CORN-PLANTERS.106,035. S. A. DARRACH
FENCE POST.106,036, WALTER DICKSON.
CORK-SCREWS.106,037, RICHARD M. DILL.
TRACE-HOLDER FOR HARNESS.106,038, WARREN WHITNEY DUTOCH.
LOOM-TEMPLE.106,039, JEFFERSON ESHLEMAN.
WHEEL CULTIVATORS.106,040,
EDWARD EVANS.
PORTABLE
COOKING-STOVE.106,041, LOUIS ALEXANDRE FARJON.
PIPE-COUPPLINGS.106,042, STEPHEN D. FISHER.
SEED-MARKER.106,043.
JOSEPH A. FLETCHER.
SNAP-HOOKS.106,044, MASCULINE FOREACRE.
BRIDLE-BITS.106,045, JAMES A. FREMON.
JAMES H. CARKEET.
ROLLER-SKATE.106,046, AUGUST FRIEDEMANN.
HARROWS.106,047, ROBERT GEORGE.
MACHINE FOR SEPARATING MINERAL
AND FOSSIL SUBSTANCES.106,048, ROBERT GEORGE.
MACHINE FOR SEPARATING AND
CONCENTRATING ORES AND
OTHER MATERIALS OF DIFFERENT
SPECIFIC GRAVITIES.106,049, ROBERT GEORGE.
APPARATUS FOR SEPARATING AND
CONCENTRATING ORES.106,050, ABNER R. GILES.
CARRIAGE-JACKS106,051,
GEORGE GILL.
STAND AND WAITER.



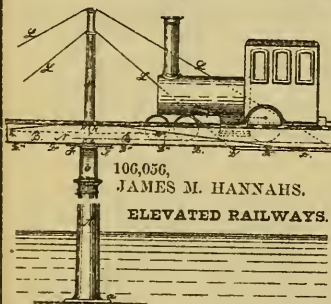
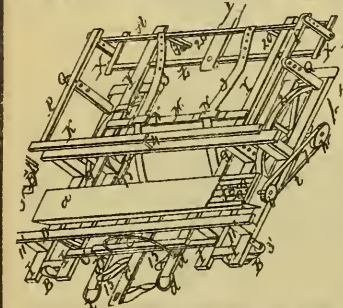
106,052.
HENRY A. GOODMAN.
CAR-BRAKES

106,053, HENRY GROGAN.
LUBRICATING COMPOUNDS.

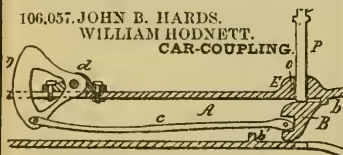


106,054, GERBAULT-GUICHARD.
LIME-KILNS.

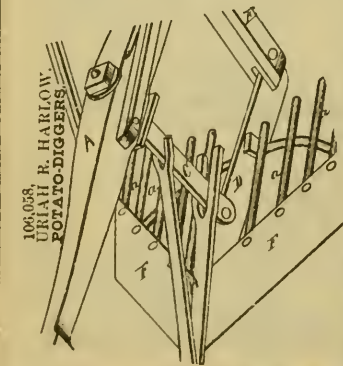
106,055, HENRY HAINES.
COMBINED SEEDER AND CULTIVATOR.



106,056,
JAMES M. HANNAHS.
ELEVATED RAILWAYS.

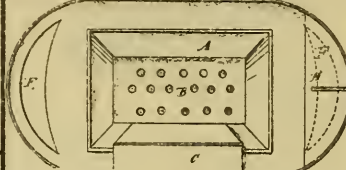


106,057, JOHN B. HARDS.
WILLIAM HODNETT.
CAR-COUPLING.

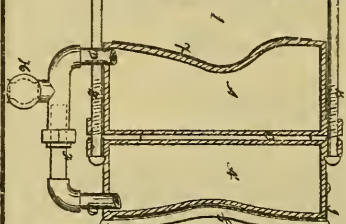


106,058,
URIAH R. HARLOW.
POTATO-DIGGERS.

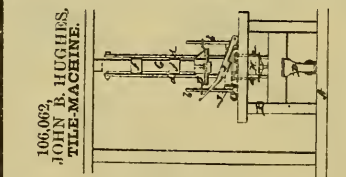
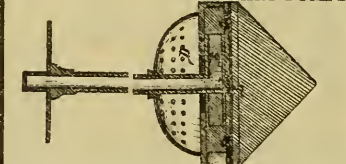
106,059, MORTIMER S. HARSHA.
WM. M. VAN NORTWICK.
PORTABLE STOVE.



106,060, CHARLES HEPTONSTALL.
STEAM FORMER FOR SHAPING AND
FINISHING CORSETS.

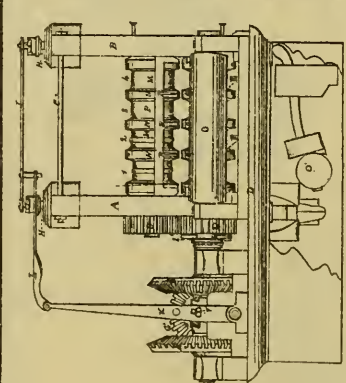


106,061, ROBERT A. HORNING.
ROTARY PUMPS.

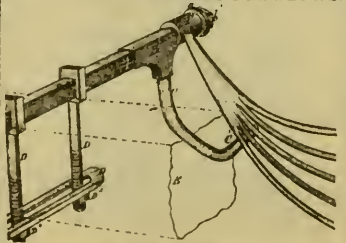


106,062,
JOHN B. HUGHES.
TILE-MACHINE.

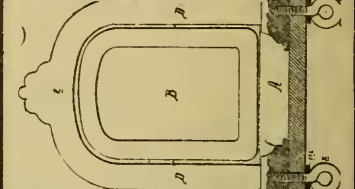
106,063, DAVID I. JONES. ROLLING-MILLS.



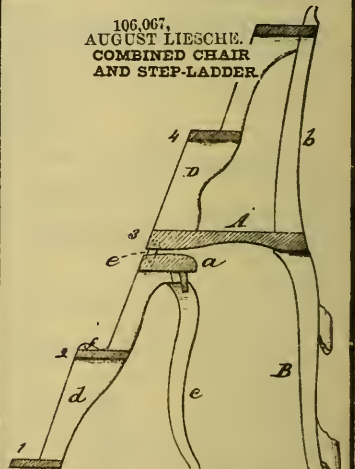
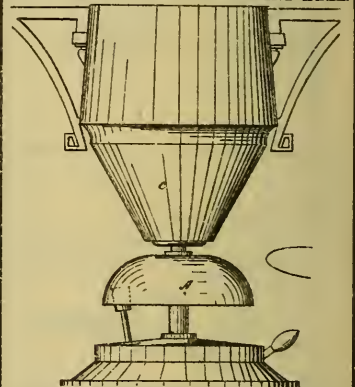
106,064, WILLIAM B. KIDDER.
CLOD-FENDERS FOR PLOWS.



106,065, CHENEY KILBURN.
MODE OF ATTACHING LOOKING-GLASS
FRAMES TO BUREAUS.



106,066, THOMAS LEACH. CUP AND BELL.

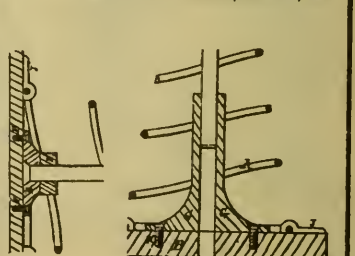


106,067,
AUGUST LIESCHE.
COMBINED CHAIR
AND STEP-LADDER.

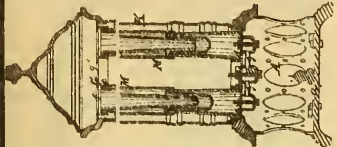
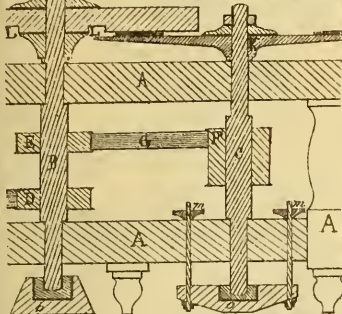
106,068, HENRY LOEWENBERG.
MANUFACTURE OF IMITATION
BRAIDS, TRIMMINGS, &c.



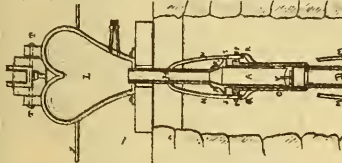
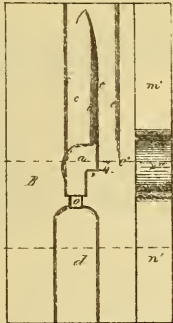
106,069, WILLIAM LORD
SPRING FOR BEDS, SOFAS, &c.



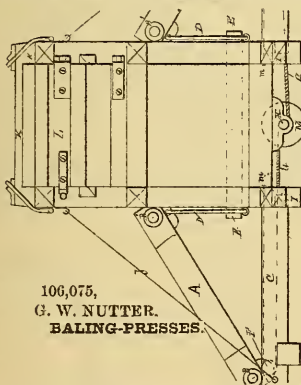
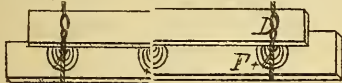
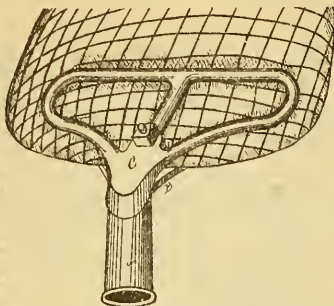
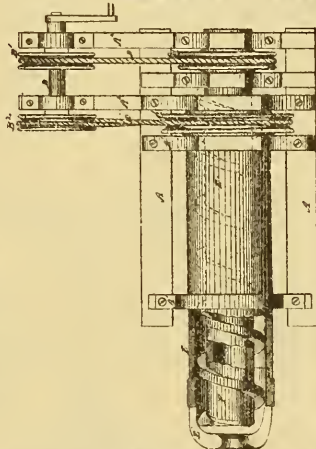
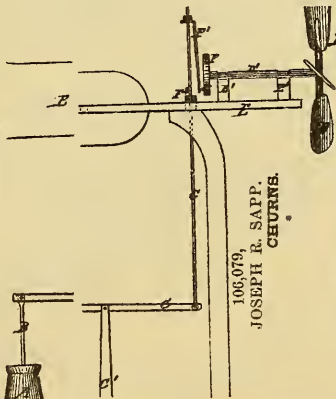
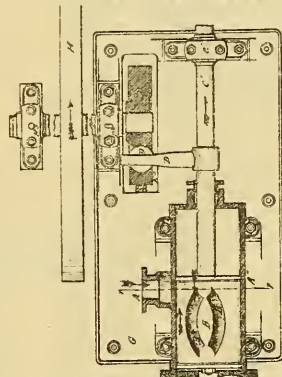
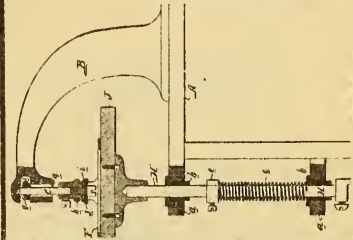
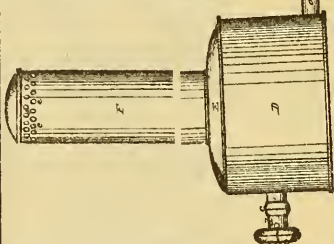
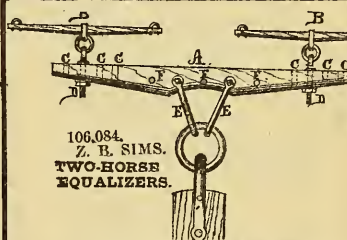
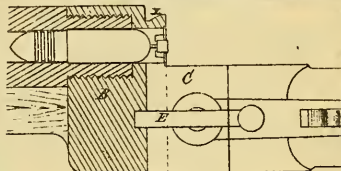
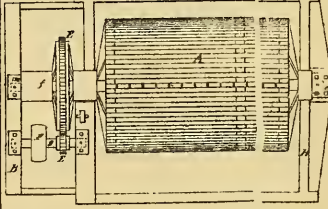
106,070, JOHN LUNDGREN. GAS HEATER.

106,071, DAVID M. MEFFORD.
MACHINES FOR GRINDING
HAND-SAW BLADES

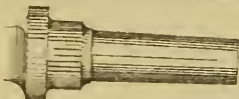
106,072, CHARLES L. MERRILL. PUMPS.

106,073,
WM. H. MILLER.
GEO. W. MILLER.
MANUFACTURE OF BLADES
OF POCKET-CUTLERY.

106,074, LANE L. NEWMAN. BED-BOTTOM

106,075,
G. W. NUTTER.
BALING-PRESSES.106,076, HENRY DIETRICH OHLSEN.
COACH-CLEANING SPONGE.106,077, THOMAS W. PURCELL.
PIPE-BORING MACHINE.106,078, JAMES ROBERTSON.
MOTIVE-POWER ENGINES106,079,
JOSEPH R. SAPP.
CHURNS.106,080, THOMAS MARTIN SAURMAN.
CUTTING APPARATUS.
PHOTOGRAPHIC PRINT.106,081, LOUIS SCHULZE.
REGULATOR FOR SPIRIT-METERS.106,082, NATHANIEL SEHNER.
UMBRELLAS106,083, THOMAS D. SIMPSON.
G. B. GRAY.
J. H. ROMANS.
BREECH-LOADING FIRE-ARMS.106,084,
Z. B. SIMS.
TWO-HORSE
EQUALIZERS.106,085, JOHN H. SLOCUM. TANNING.
GEO. F. TURNER.

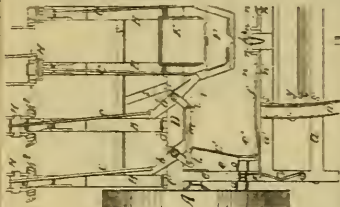
106,086. ALFRED E. SMITH.
MANUFACTURE OF CARRIAGE-AXLES



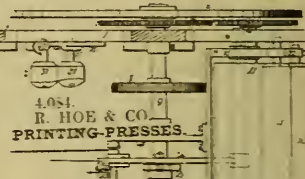
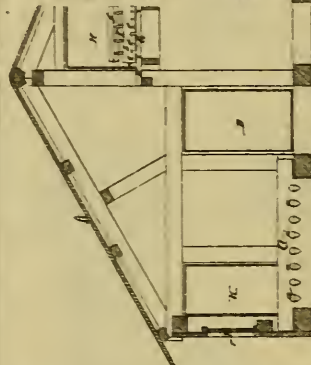
106,094. WM. H. TOPHAM. SPITTOON



106,087. FRANKLIN R. SMITH.
HAY-TEDDERS.



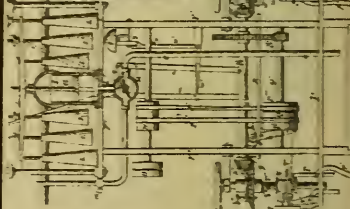
106,095. J. TYLER.
STOCK BARN.



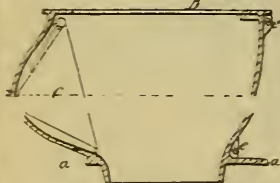
106,088. JOHN O. SMITH.
PORTABLE FENCE.



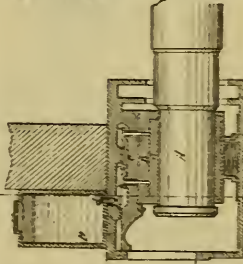
4,085. B. HOLLY.
WATER SUPPLY
REGULATOR FOR
WATER WORKS



106,089. W. SMITH. WATER-CLOSET
RECEIVERS



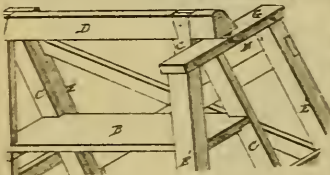
106,066. E. VON JEINSEN.
LUBRICATING JOURNAL OF RAILWAY
AXLE BOXES.



4,086. BIRDSILL HOLLY
FOR WATER WORKS
WATER-SUPPLY REGULATORS

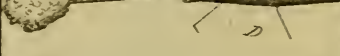


106,090. JOSEPH B. STOCKTON.
SUSPENDED SHELF

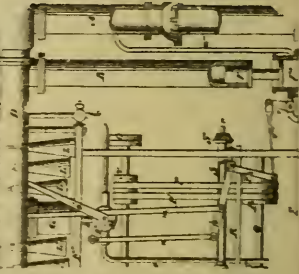


106,097. CANCELED.

106,098. REDFORD W. WALKER.
DEVICE FOR MOISTENING
AND CLOSING ENVELOPES



4,087. BIRDSILL HOLLY.
WATER-SUPPLY REGULATORS
FOR WATER WORKS



106,091. JOHN STOWE.
APPARATUS FOR THE TREATMENT
OF FRACTURE OF THE LOWER JAW.



106,099. THO. E. WARREN.
ADJUSTABLE GAUGE.



106,100.
ALBIN WARTH.
BUNGS.

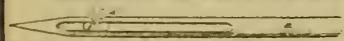


4,088. N. LADU. MODE OF
FASTENING SKATES.

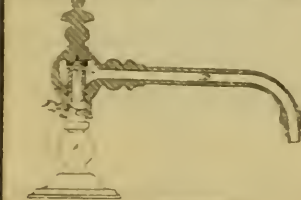


1,083. AMOS RANK.
HARVESTER-RAKES

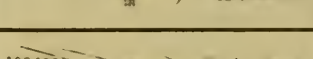
106,092. EDWIN STRAIN.
NEEDLE FOR SEWING-MACHINE



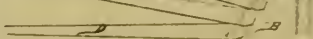
106,093. THEODORE H. THAYER. COCK



106,101. ALBIN WARTH.
MACHINES FOR
CUTTING TEXTILE
AND OTHER
MATERIAL.



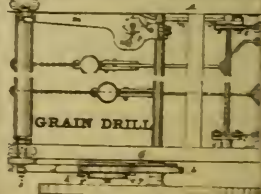
106,102.
CHARLES D. WOLCOTT.
CLOTHES-RACK



4,091. G. H. SANDHORN.
PAPER
CUTTING
MACHINE



4,091. J. H. THOMAS, P. P. MAST
AND C. O. GARDINER



GRAIN DRILL

ILLUSTRATIONS OF PATENTS

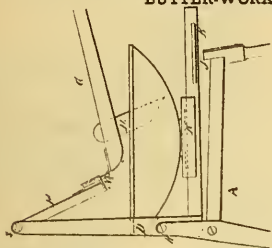
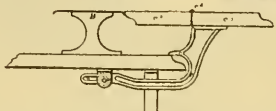
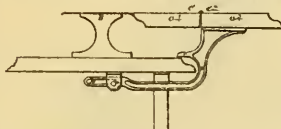
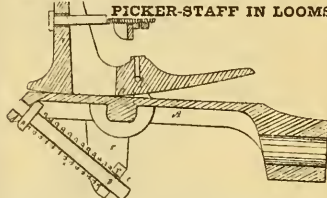
ISSUED FROM

THE UNITED STATES PATENT OFFICE

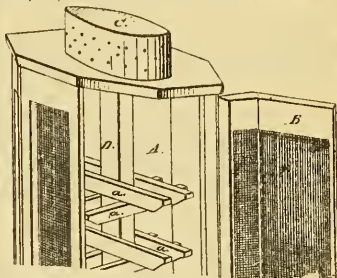
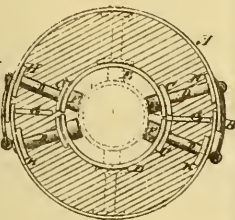
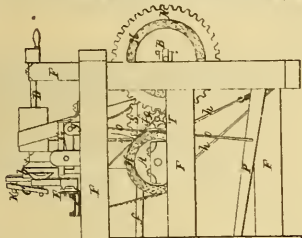
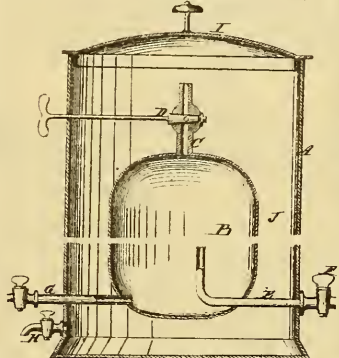
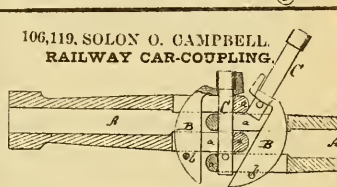
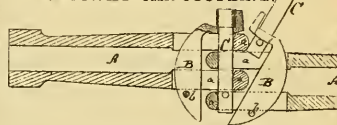
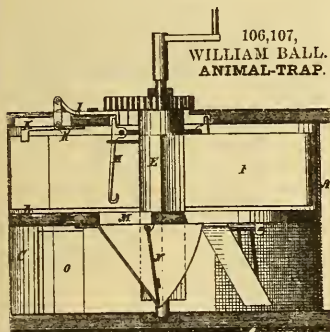
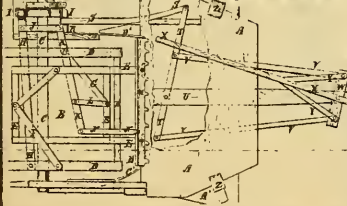
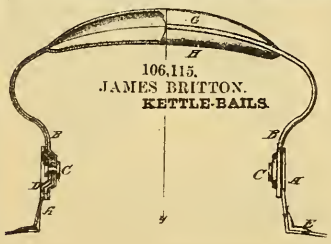
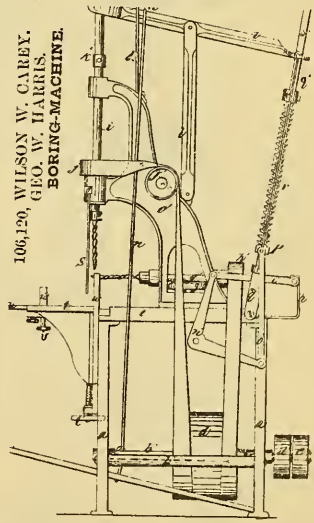
AUGUST 9, 1870.

106,104, J. P. ADAMS.
J. P. CORBIN.

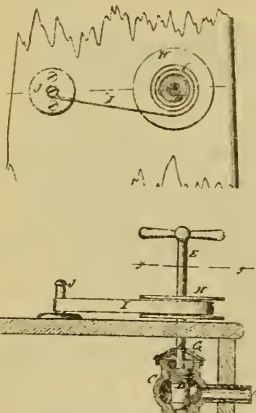
BUTTER-WORKER.

106,109,
JAMES BLAKE. SUPPORT FOR TABLES.106,110, JAMES BLAKE.
SUPPORT FOR TABLES.106,116, MICAJAH C. BURLEIGH.
MECHANISM FOR ACTUATING THE
PICKER-STAFF IN LOOMS.

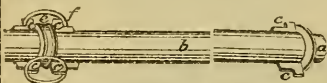
106,117, JAMES H. BUSH. MILK-SAFES.

106,105,
FRANCIS Y. ARNOLD,
NON-CONDUCTING
CASING FOR
BOILERS,
STEAM-PIPES, &c.106,106, OLNEY ARNOLD.
ISAAC LINDSLEY.
MACHINE FOR TRIMMING AND
SHEARING HAIR-CLOTH, &c.106,112, GUSS. BOURGADE.
PREPARATION OF ALBUMEN.106,113, GEORGE R. BOWMAN.
WATER-COOLER, &c.106,118,
ERASTUS T. RUSSELL.
CULTIVATOR AND HARROW.106,119, SOLOMON O. CAMPBELL.
RAILWAY CAR-COUPLING.106,107,
WILLIAM BALL.
ANIMAL-TRAP.106,114, HENRY W. BOYNTON.
SHUTTER-WORKERS.106,108, CHARLES BARNES.
RAKE ATTACHMENT FOR
HARVESTERS.106,115,
JAMES BRITTON.
KETTLE-BAILS.106,120, WILSON W. CAREY,
GEO. W. HARRIS.
BORING-MACHINE.

106,121, JOSIAH W. CARNEY.
VALVES FOR STOP-COCKS.



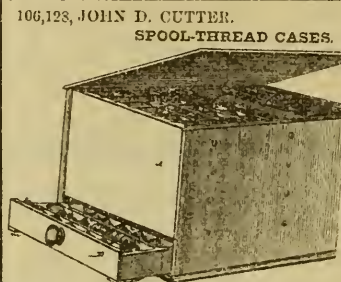
106,122, PATRICK CLARK. PIPE-JOINTS.



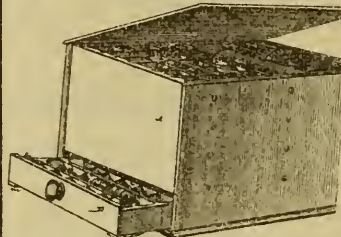
106,123, WM. CLEMSON. SAW-HANDLE



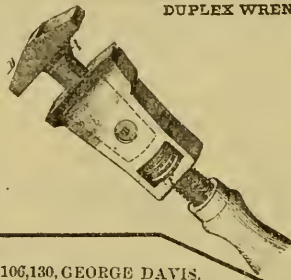
106,127, WALTER S. CROOKER.
MEDICAL COMPOUND AND LINIMENT.



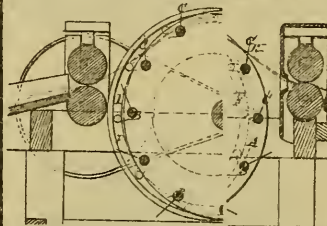
106,128, JOHN D. CUTTER.
SPOOL-THREAD CASES.



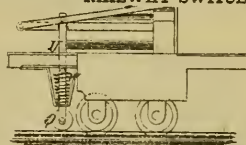
106,129, AUGUSTUS BALL DAVIS.
DUPLEX WRENCH



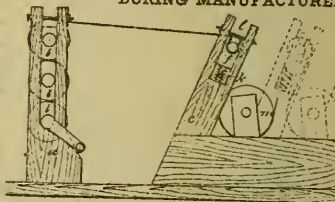
106,130, GEORGE DAVIS.
JOHN R. HOOVER.
DRAWING-FRAMES FOR HEMP, &c.



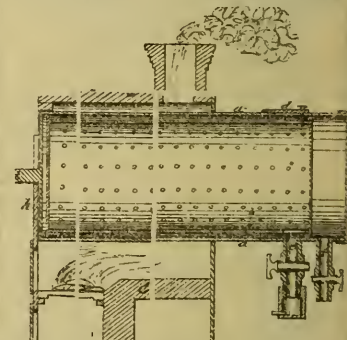
106,131, JAMES DAVIS.
RAILWAY SWITCHES.



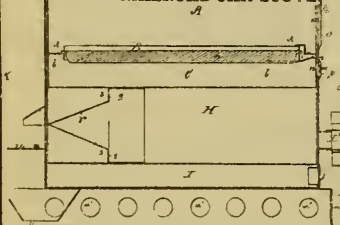
106,134, LORENZO DEAN.
ATTACHMENT TO PAPER-MACHINES
TO PREVENT THE STRAINING
AND BREAKING OF THE PAPER
DURING MANUFACTURE.



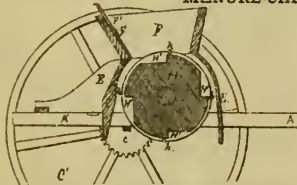
106,135, LORENZO DEAN.
BOILER FOR REDUCING FIBROUS
MATERIALS TO TEXTILE STOCK



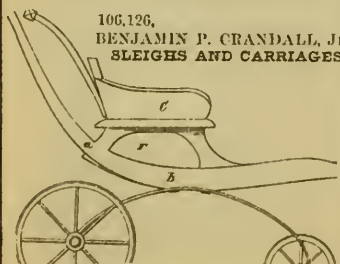
106,124, J. M. COMINS, M. D.
RAILROAD-CAR STOVE.



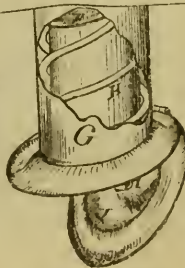
106,125, THOS. L. COTTEN.
MANURE-CARTS.



106,126, BENJAMIN P. CRANDALL, JR.
SLEIGHS AND CARRIAGES

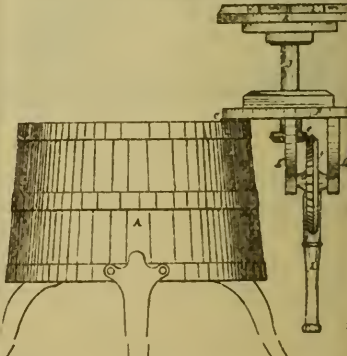


106,132, PERRY W. DAVIS.
AUTOMATICALLY
OPERATED
WATER-CLOSET SEAT
FOR CHILDREN.

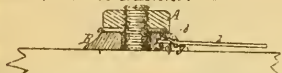
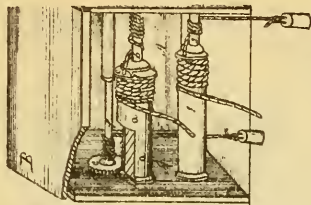
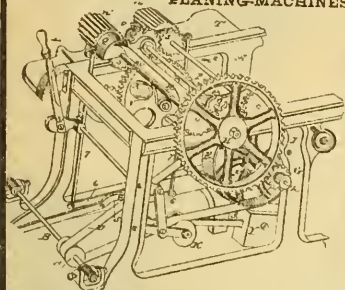
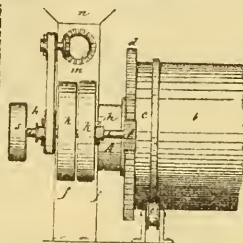
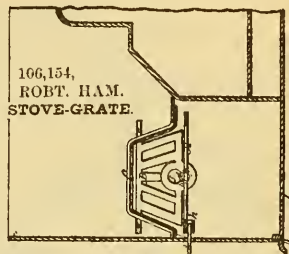
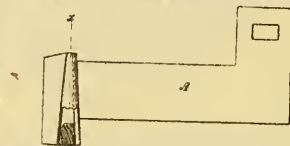
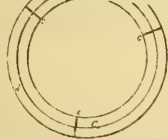
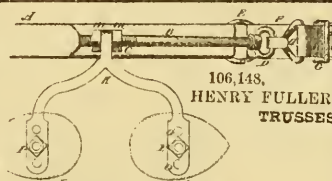
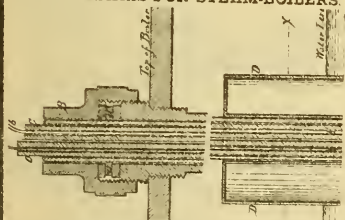
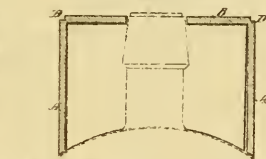
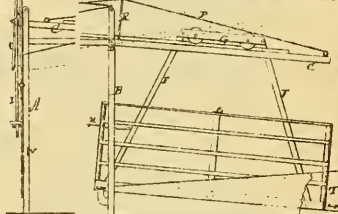
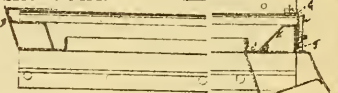
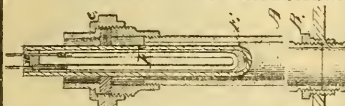


106,133, LORENZO DEAN.
APPARATUS FOR REDUCING FIBROUS
MATERIAL TO A TEXTILE STOCK

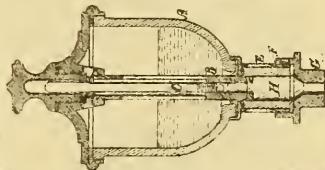
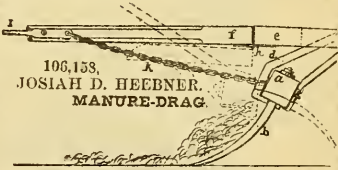
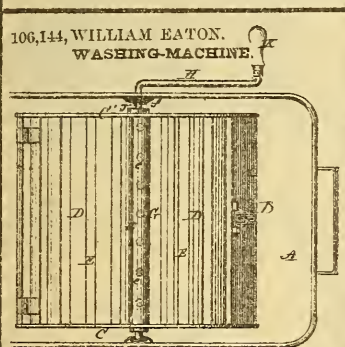
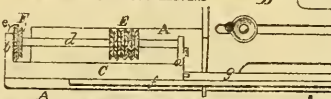
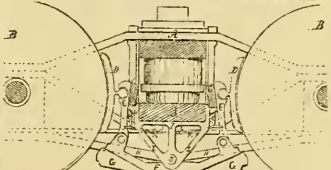
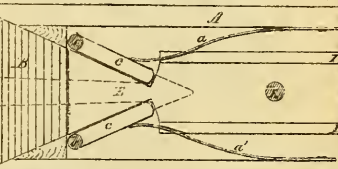
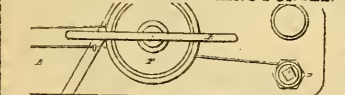
106,137, CHARLES H. DE KNIGHT.
WASHING-MACHINE



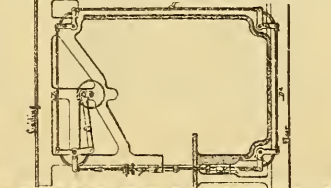
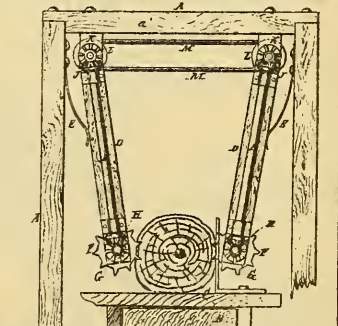
106,138, JAMES DENNIS. NUT-LOCK.

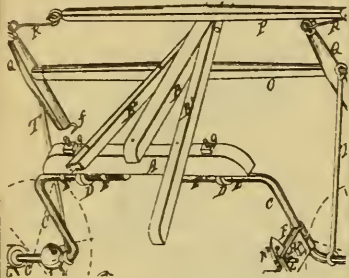
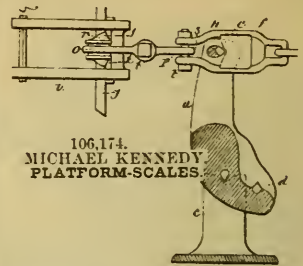
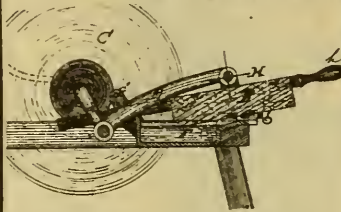
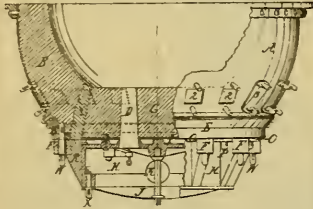
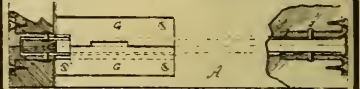
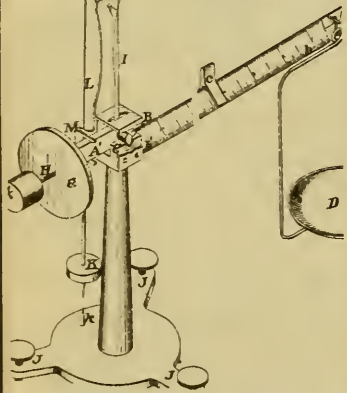
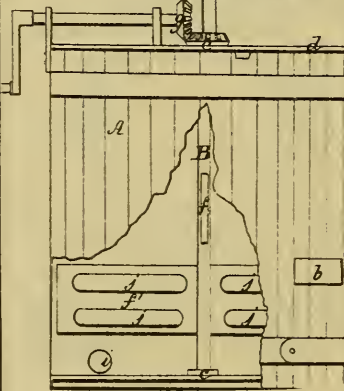
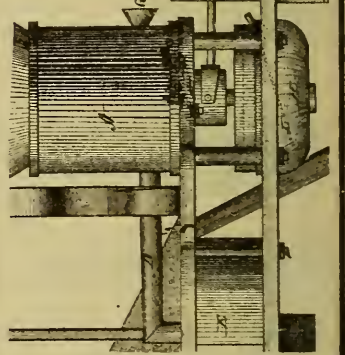
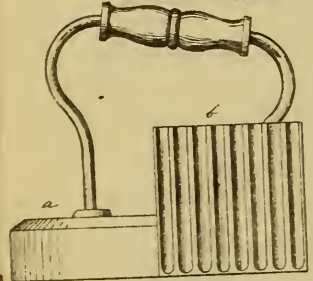
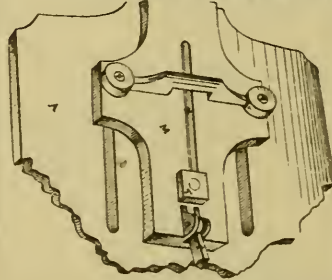
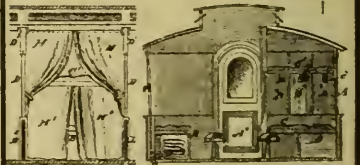
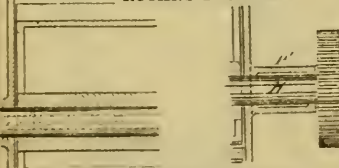
106,139, FRANK DOUGLAS.
PLANING-MACHINES.106,147,
ERNEST FRANK,
JOHN B. ADT.
APPARATUS
FOR DRYING PHOSPHATES.106,154,
ROBT. HAM.
STOVE-GRATE.106,155, MILO HARRIS.
HEMMER FOR SEWING-MACHINE.106,140, WM. F. DRAPER.
SPINNING-RING.106,141, WRIGHT DURYEA.
ELECTRO-MAGNETIC LOW-WATER
ALARM FOR STEAM-BOILERS.106,148,
HENRY FULLER.
TRUSSES.106,149, GEORGE C. FURBER.
DEVICE FOR PACKING BOTTLES.106,156, AMASA HATHAWAY.
FARM-GATES.106,157, G. HAYES.
SKY LIGHT.106,142, WRIGHT DURYEA.
ELECTRO-MAGNETIC LOW-WATER
DETECTOR FOR STEAM-BOILERS.

106,150, WILLIAM GEE, LUBRICATOR.

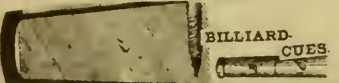
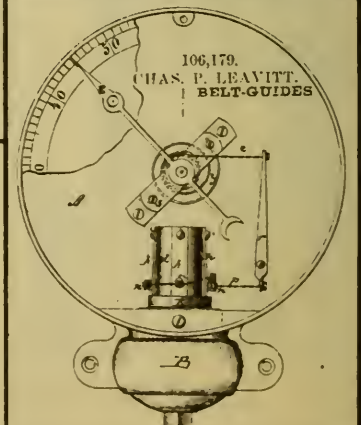
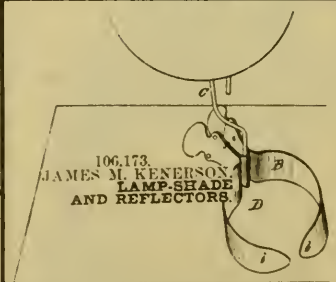
106,153,
JOSIAH D. HEEBNER.
MANURE-DRAW.106,143, A. K. EATON. MANUFACTURE
OF PAPER PULP.106,144, WILLIAM EATON.
WASHING-MACHINE.106,151, HARRY C. GOODRICH.
TUCK-CREASING ATTACHMENT FOR
SEWING-MACHINES106,152, MERRITT W. GRISWOLD.
CAR-BRAKES106,159, JACOB WILSON HESS.
RAILWAY-CAR COUPLING.106,145, LORING FARNSWORTH.
PIANO-FORTES.

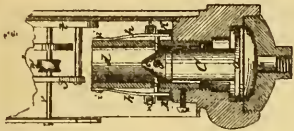
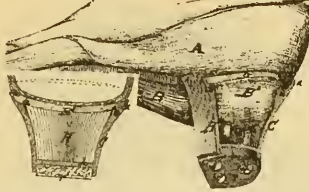
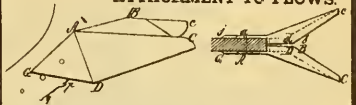
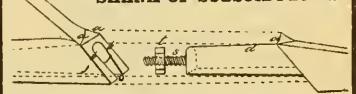
106,153, N. B. HADLEY. SCROLL-SAW.

106,160, WILLIAM E. HILL.
MACHINE FOR TURNING LOGS.106,146, WILLIAM FAIRBANK. AUTOMATIC
REELS FOR CLOTHES-LINES.

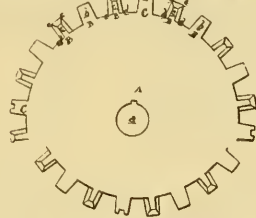
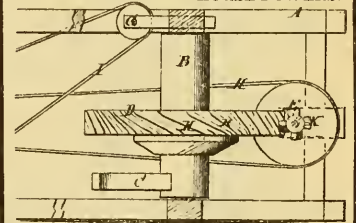
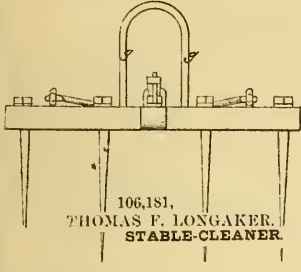
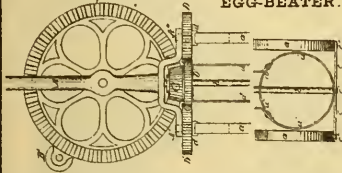
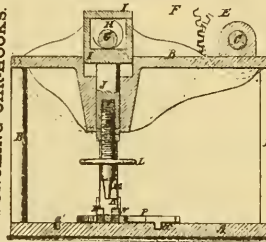
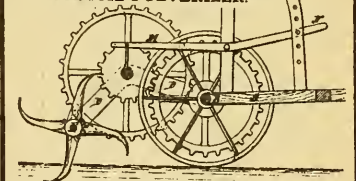
106,161, S. B. HOISINGTON.
CULTIVATORS.106,167, WILLIAM S. INGRAHAM.
MACHINE FOR SHARPENING
HARVESTER-CUTTERS106,174,
MICHAEL KENNEDY.
PLATFORM-SCALES.106,162, A. L. HOLLEY.
APPARATUS FOR THE MANUFACTURE
OF BESSEMER STEEL106,168,
W. A. IVES.
BUNG-BORER.106,169,
WM. JOHNSON.
HINGES.106,175, SILAS R. KENYON.
ATTACHING RUBBER TO WRINGER
-SHAFTS.106,170,
FRANK B. JONES.
HINGES.106,176, JOHN W. KING.
SHUTTER-FASTENERS106,163, WOODBURY STORER HOW.
BALANCES.106,171, WILLIAM JONES.
PROCESS OF SEPARATING
NAILS FROM FELT.106,177, W. C. KNOX.
GRAIN-SEPARATORS
AND SCOURERS.106,164, CHARLES HYATT.
SAD AND CRIMPING-IRON.106,172, WILLIAM C. KAISER.
MACHINES FOR BENDING
CLEVIS AND STIRRUPS.106,178, GEO. S. KOONTZ.
J. B. HILL.
SLEEPING-CARS106,165, W. G. HYNDMAN.
ROTARY BLOWERS

106,166, MARTIN V. INGERSOLL.

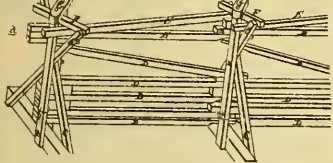
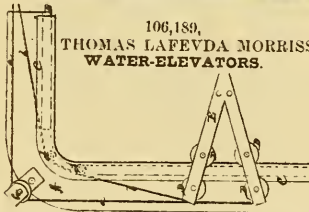
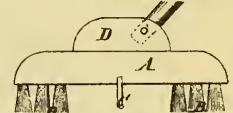
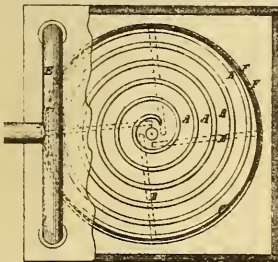
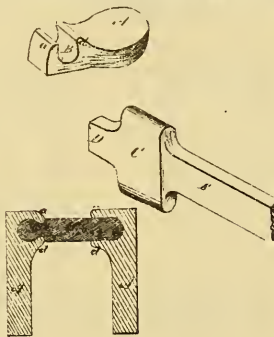
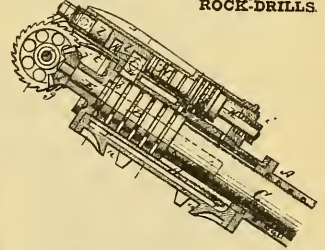
BILLIARD-
CUES.106,173,
JAMES M. KENERSON.
LAMP-SHADE
AND REFLECTORS106,179,
CHAS. P. LEAVITT.
BELT-GUIDES

106,180, CHARLES LIECKE.
PRESSURE-GAUGES.106,186, EDGAR T. MILLER.
METALLIC HEELS FOR BOOTS
AND SHOES.106,192, JAS. W. MURFEE.
ATTACHMENT TO PLOWS.106,193, JAS. W. MURFEE.
ATTACHING THE POINT TO THE
SHANK OF SUBSOIL-PLOWS.

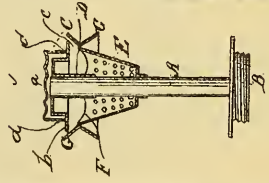
106,187, CHARLES MITZELFELD. SAWS.

106,194, JAMES W. MURRELL.
HORSE-POWERS.106,181,
THOMAS F. LONGAKER.
STABLE-CLEANER.106,182, THOMAS MARSH.
JAMES BERNEY.
EGG-BEATER.106,188, DAVID G. MORRIS.
MACHINES FOR
BENDING AND
PUNCHING CAR-HOOKS.106,195, GODFREY S. NEWSOM.
SUBSOIL PULVERIZER.

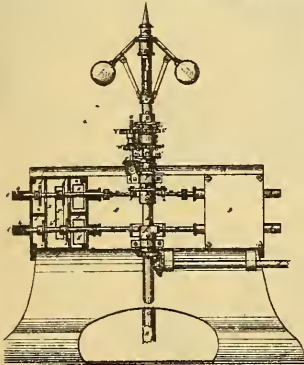
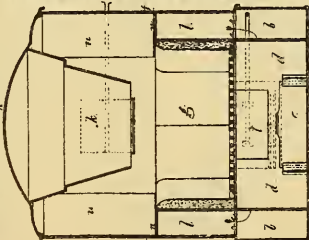
106,183, DAVID McCURDY. FENCES.

106,189,
THOMAS LAFEVDA MORRIS.
WATER-ELEVATORS.106,196, JACOB ODELL.
SCRUBBING-BRUSH.106,184, WILLIAM McLAUGHLIN.
GRAIN-SCOURING MACHINES.106,190, F. B. MORSE. PROCESS OF
FORGING CARRIAGE-SHACKLES.106,197, HERMANN OSTERKAMP.
ROCK-DRILLS.

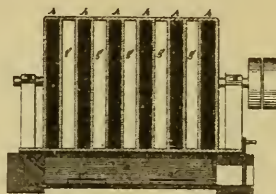
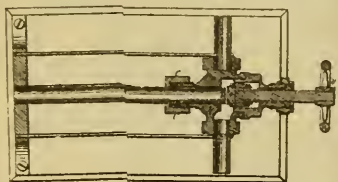
106,198, CHARLES F. PANKNIN. INK.

106,199, ROBERT W. PARK.
VAPOR-BURNERS.106,200, ROBERT W. PARK.
VAPOR-BURNERS.

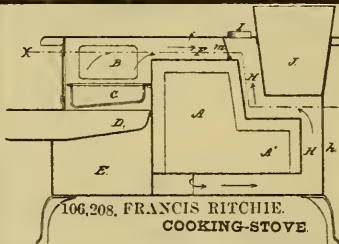
106,185, J. P. MERRIAM. STEAM-ENGINE.

106,191, ANDREW MURDOCK.
BASE-BURNING FIRE-PLACE HEATER.

106,201, E. LAMSON PERKINS.
J. H. MOULTON.
CHAS. E. SAWYER.
STEAM-TRAPS.

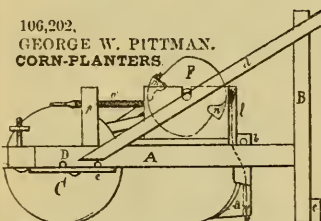


106,207, SAMUEL G. RICE.
MODE OF TREATING TOBACCO.

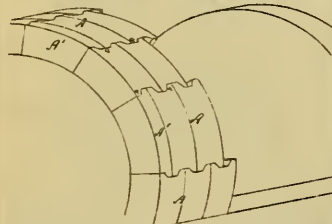


106,208, FRANCIS RITCHIE.
COOKING-STOVE

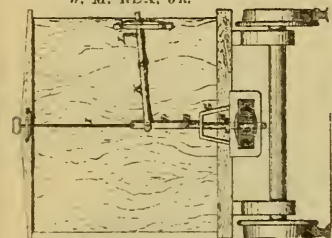
106,202,
GEORGE W. PITTMAN.
CORN-PLANTERS



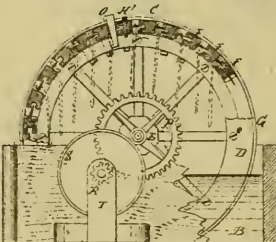
106,203, WATSON F. QUINBY.
ARCHING-BRICKS.



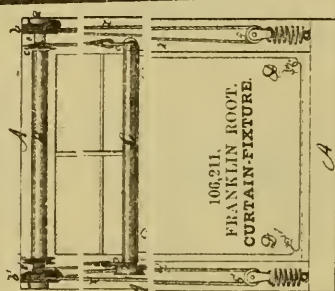
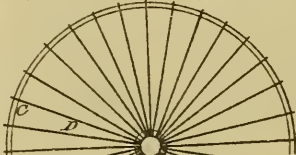
106,204, W. A. REX. CAR-COUPLING.
J. M. REX, JR.



106,209, JOHN ROBINSON.
SAMUEL F. ROBINSON.
CHRISTOPHER C. PUTNAM.
APPARATUS FOR TANNING.

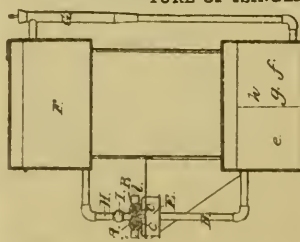


106,210, DAVID E. ROE, BROILER.

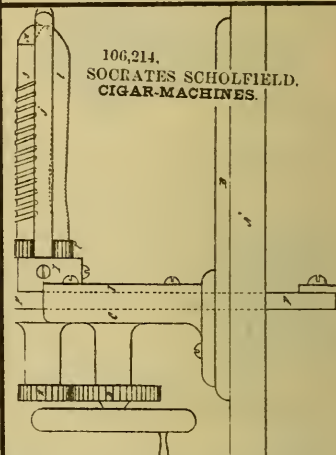


106,211,
FRANKLIN ROOF.
CURTAIN-FIXTURE.

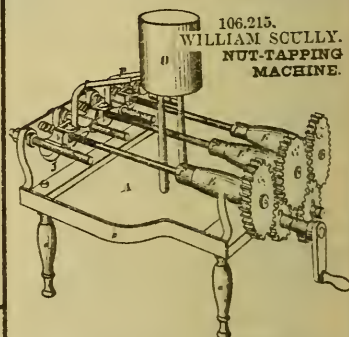
106,212, EBENEZER ROWE.
APPARATUS FOR COOLING THE
ROLLERS USED IN THE MANUFACTURE OF ISINGLASS.



106,213, ARTHUR SAUER.
GUSTAVE SAUER.
LÉONCE CACHAL.
LIQUID FOR
RAISING PASTE OR DOUGH

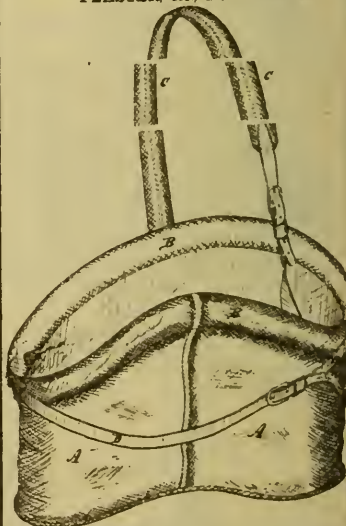


106,214,
SOCRATES SCHOLFIELD.
CIGAR-MACHINES.

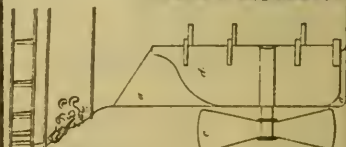


106,215,
WILLIAM SCULLY.
NUT-TAPPING
MACHINE.

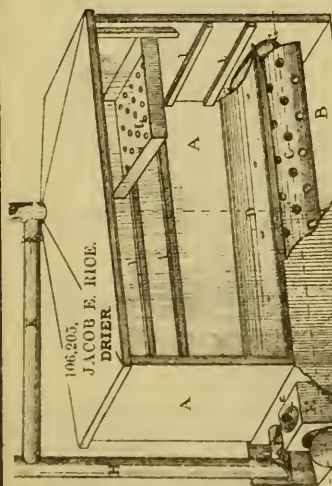
106,216, ORSON W. SMITH.
APPARATUS FOR CARRYING GRAIN
PLASTER, &c. FOR SOWING.



106,217, GEORGE SEYMOUR.
STEERING APPARATUS.

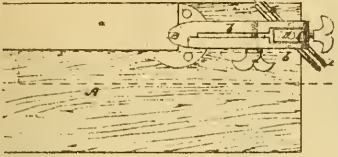


106,206, PETER J. RICE.
DAVID A. SCOTT.
AIR-HEATING STEAM-CONDENSERS.

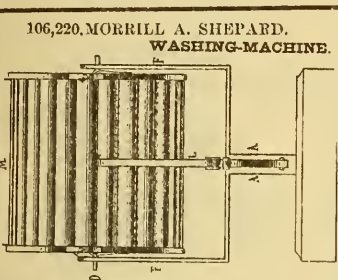


106,205,
JACOB E. ROE.
DRIER.

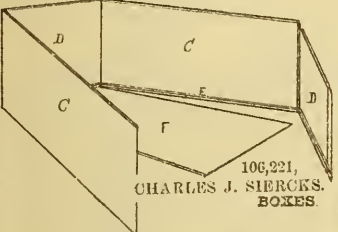
106,218, EPHRAIM SHAW.
MITERING-MACHINE.



106,219, JAMES SHAW.
COMPOSITION FOR OILING WOOL.

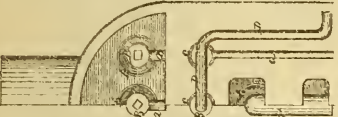


106,220, MORRILL A. SHEPARD.
WASHING-MACHINE.

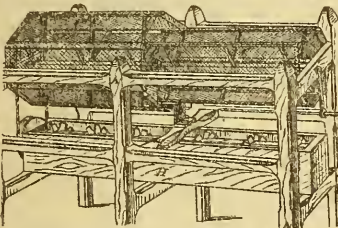


106,221,
CHARLES J. SIERCKS.
BOXES.

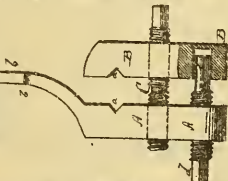
106,222, E. R. SINTZENICH.
STEAM-GENERATORS.



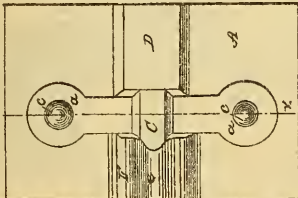
106,223, JOHN SKINNER. FLOUR-BOLTS.



106,224,
JOHN S. SKINNER.
LATHE-DOG.



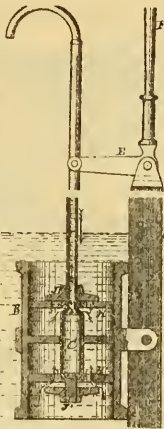
106,225, WILLIS B. SMITH.
SHACKLE-BLANKS.
DIE FOR FORGING CARRIAGE



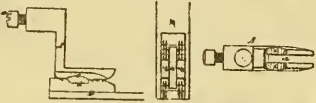
106,227, GEORGE STECK.
IRON FRAMES FOR PIANOS.



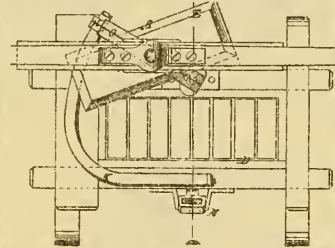
106,226, PETER M. SNELL. PUMPS.
OSCAR SNELL.



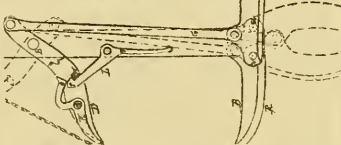
106,228, CHAS. M. STOCKER.
FEEDING DEVICE AND PRESSER-FOOT
FOR SEWING-MACHINES



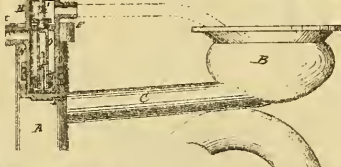
106,229, C. W. STOPPLE.
COTTON AND HAY-PRESSES



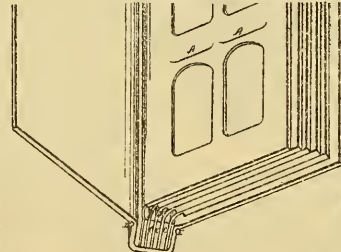
106,230,
SEVERETT W. STUART.
HORSE HAY-FORKS.



106,231,
WILLIAM GEORGE STUART
WATER-CLOSETS.

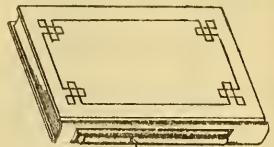


106,232, J. F. TAPLEY.
PHOTOGRAPH ALBUMS

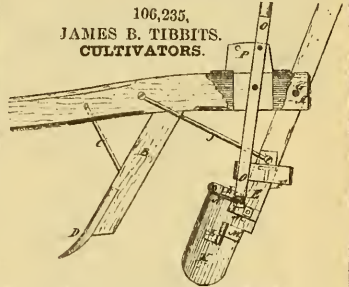


106,233, J. A. TATRO.
REFINING PETROLEUM

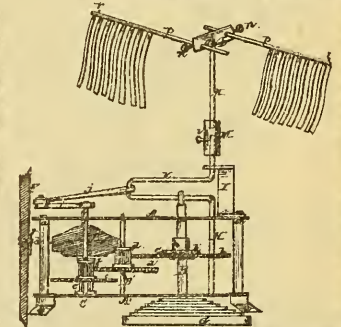
106,234, JABEZ C. TERRY. BOOK-BINDING.



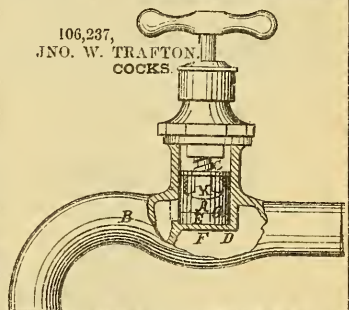
106,235,
JAMES B. TIBBITS.
CULTIVATORS.



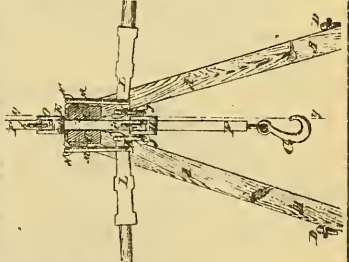
106,236, R. E. TOLAR.
W. D. ORR.
AUTOMATIC TABLE-FAN OR BRUSH.



106,237,
JNO. W. TRAFTON.
COCKS.

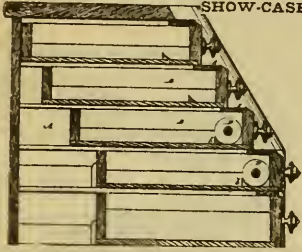


106,238, GREY UTLEY. STUMP-PULLER.



106,239, JOSEPH P. WADDELL.
MEDICAL COMPOUND OR PILL

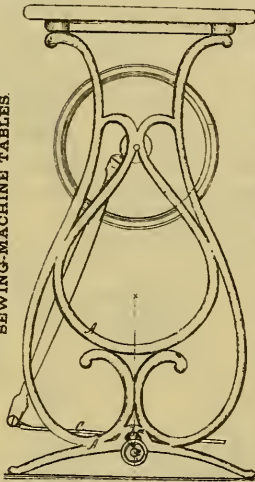
106,240, EDWARD WATSON.
RICHARD H. NORRIS.
SHOW-CASES.



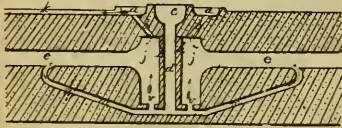
106,241, WILLIAM WICKERSHAM.
WIRE FOR ATTACHING SOLES TO
BOOTS AND SHOES.



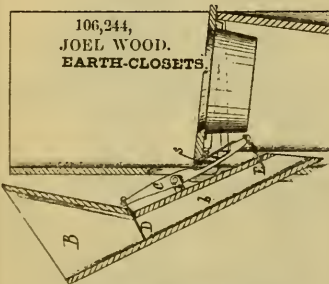
106,242,
CHAS. H. WILCOX.
SEWING-MACHINE TABLES.



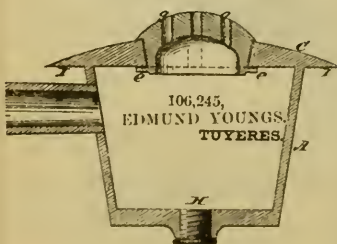
106,243, WM. WILMINGTON. CAST-IRON
CAR-WHEELS.



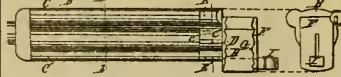
106,244,
JOEL WOOD.
EARTH-CLOSETS.



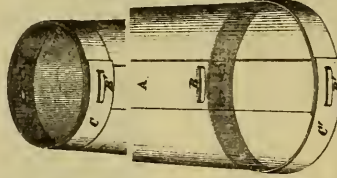
106,245,
EDMUND YOUNG.
TUYERES.



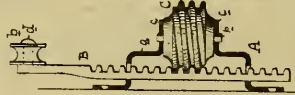
106,246, NATHAN H. AMBLER.
MAGAZINE GUNS.



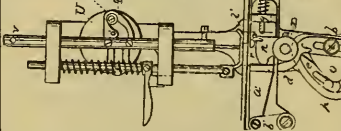
106,247, JOHN BAIRD.
WARREN FISHER.
MICA CHIMNEYS FOR LAMPS.



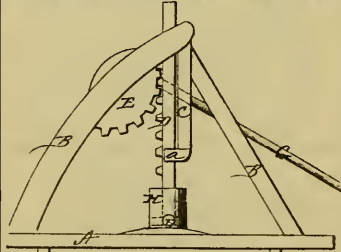
106,248, WILLIAM HENRY BECHTEL.
SHADE-CORD RETAINER.



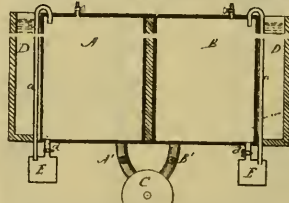
106,249, JOSEPH BENNOR.
SEWING-MACHINE.



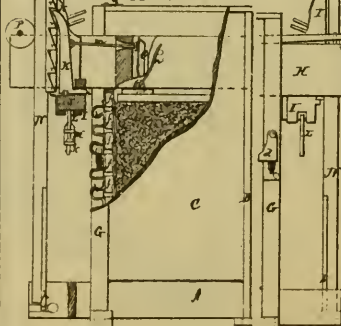
106,250, ARNER BISHOP.
SAUSAGE-STUFFER AND LARD-PRESS.



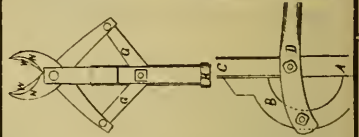
106,251, EDWARD S. BOYNTON.
PROCESS OF FORMING VACUUM IN
FREEZING APPARATUS.



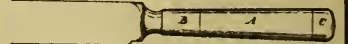
106,252, JEREMIAH BROCKWAY.
HOP-PRESSES.



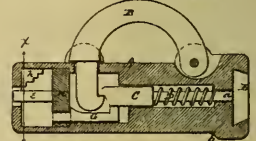
106,253, RANSOM BULLARD.
GEORGE E. MILLS.
PRUNING-SHEARS.



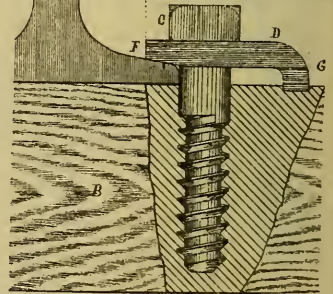
106,254, MATTHEW CHAPMAN.
HANDLES FOR KNIVES, &c.



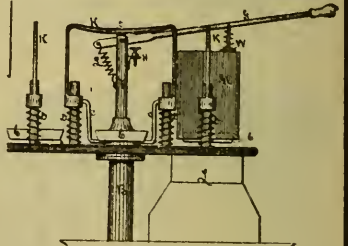
106,255, EVERETT CLEMONS.
SEAL-LOCKS.



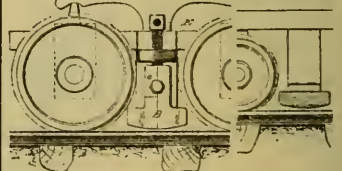
106,256, JOHN COCHRANE.
RAILWAY-RAIL FASTENING.



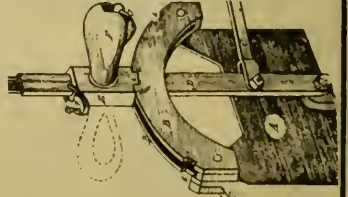
106,257, E. T. COVELL.
MACHINES FOR SOLDERING
METALLIC VESSELS.

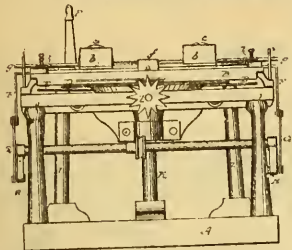
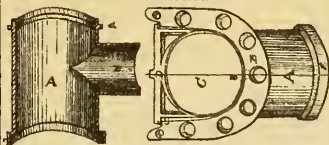
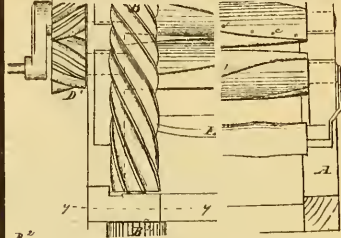
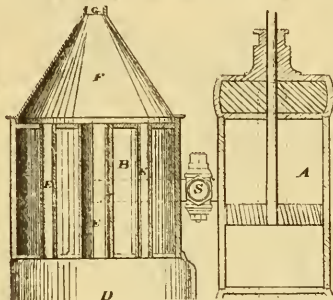
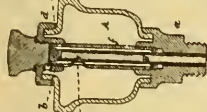


106,258, JOHN S. CRARY.
SAFETY-SHOE FOR RAILWAY
CAR-TRUCK.

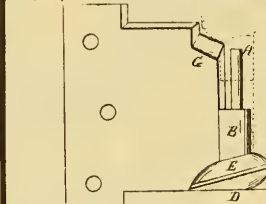


106,259, CHARLES C. DODGE.
SWITCH-STANDS.

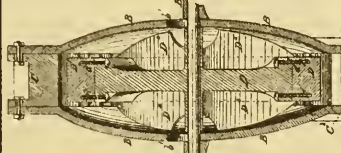
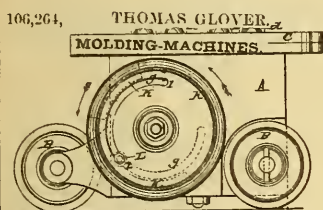
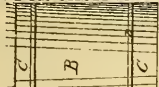
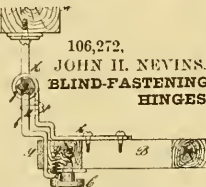


106,260, JOHN B. DOUGHERTY. MACHINE
FOR MANUFACTURING HOOPS.106,269, WM. P. LEWIS. STOVE-PIPES.
SILAS L. VERA.106,276, PETER PHILIP.
MACHINES FOR HUSKING CORN.106,270, NORMAN R. MARTIN.
APPARATUS FOR EVAPORATING.106,277, PETER PHILIP.
HEDDLE-MACHINES.106,261, ISIDORE DREYFUS.
LUBRICATORS.

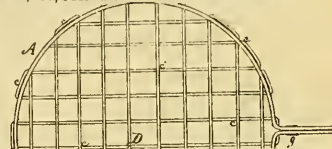
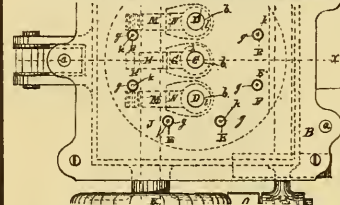
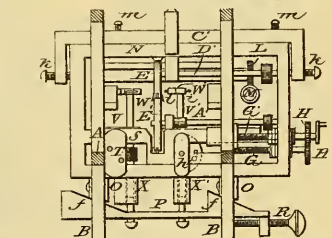
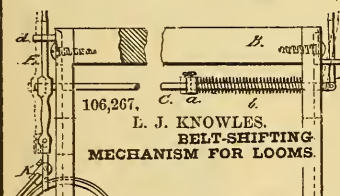
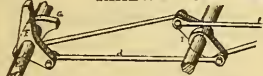
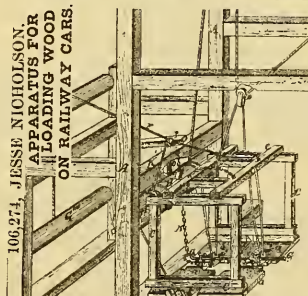
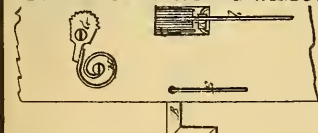
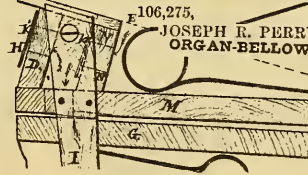
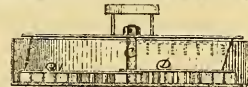
106,278, JOHN PLANT. HINGES.

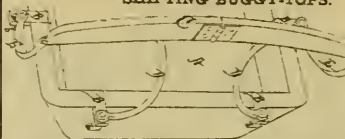
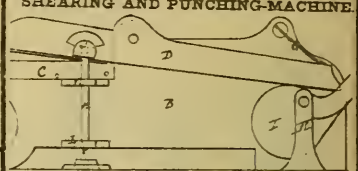
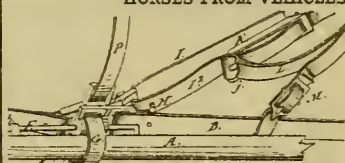
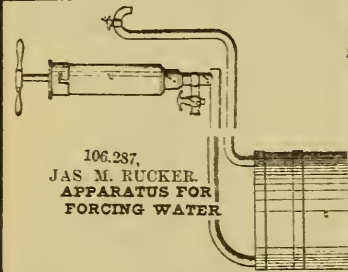
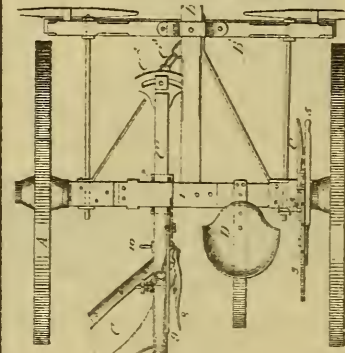


106,262, JOHN G. FINE. TOY.

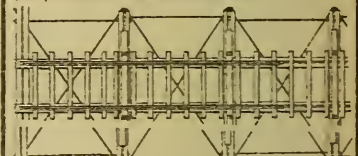
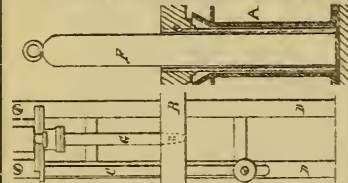
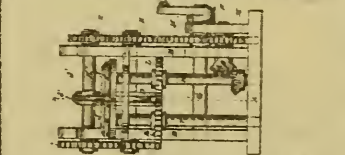
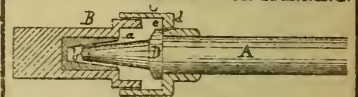
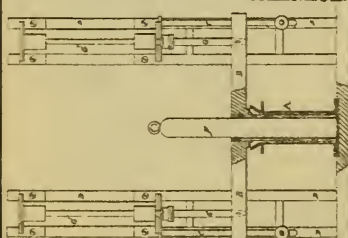
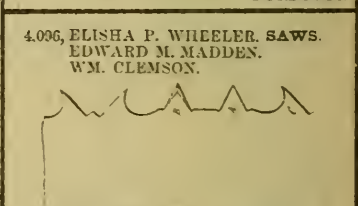
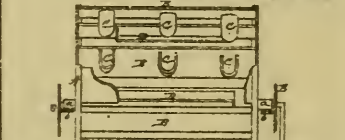
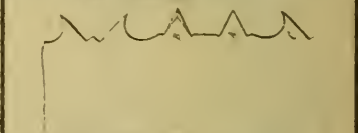
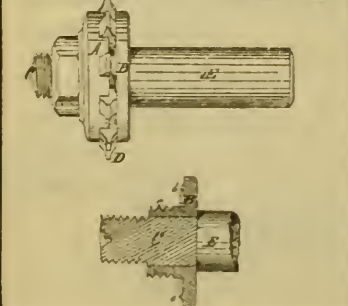
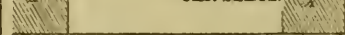
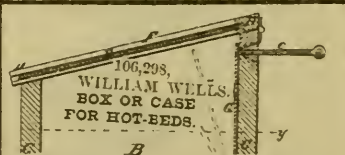
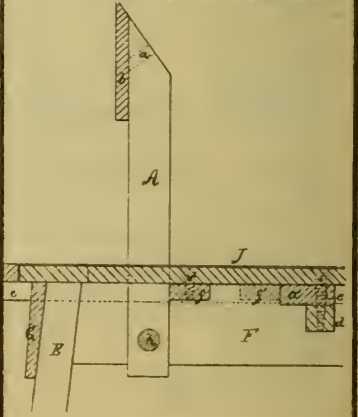
106,271, GÖVE MITCHELL.
GRINDING-MILLS.106,263, G. A. FREAR.
MANUFACTURE OF ARTIFICIAL
MARBLE.106,265, WILLIAM H. HAWLFY.
CORES FOR CASTING AXLE-BOXES.106,272,
JOHN H. KEVINS.
BLIND-FASTENING
HINGES.

106,280, JAMES T. PAGE. BROILER.

106,273, WILLIAM NEWSHAM.
MOLDING AND VENTING-MACHINE.106,281, GEORGE T. PEARSALL.
PLANING-MACHINE.106,266, JAMES P. HERRON.
RAILWAY SWITCHES.106,267,
L. J. KNOWLES.
BELT-SHIFTING
MECHANISM FOR LOOMS.106,274, JESSE NICHOLSON.
APPARATUS FOR
LOADING WOOD
ON RAILWAY CARS.106,268, JAMES S. LESTER.
DEVICES FOR OPERATING WINDOWS.106,275,
JOSEPH R. PERRY.
ORGAN-BELLOWS.106,282, LEMAN B. FITCHER.
PREPARATION OF LIME AND MORTAR.106,283, PETER PLAMONDON.
MILLSTONE-BEARINGS.106,284, THOS. POLLARD.
HOISTING APPARATUS.

106,285, ELIAS PROPST. BOOK-HOLDERS.
JAMES F. AVIS.106,292, GEORGE STRICKER.
SHIFTING BUGGY-TOPS.106,300, JOSIAH C. WILCOX
SHEARING AND PUNCHING-MACHINE.106,286,
GÜNTHER FRIDRICH C ROSENTHAL.
CHILDREN'S CARRIAGES.106,293, GEORGE SWITZER.
ATTACHING AND DETACHING
HORSES FROM VEHICLES.106,301, JOSEPH BEARFORD WILSON.
WASHING-MACHINE.106,287,
JAS. M. RUCKER.
APPARATUS FOR
FORCING WATER.106,294, JOHN E. SWALLOW.
WHEEL PLOWS.4,092, SAMUEL LEEDS ALLEN.
PLANTING-MACHINE.106,288, JOHN S. RUNYAN.
COMBINED BROILER AND FURNACE.

4,093, ALBERT FINK, BRIDGES.

106,289, HENRY SAUERBIER.
ROLLS FOR FLUTING-MACHINES.106,295, STEPHEN P. M. TASKER.
MACHINES FOR BENDING
TUBE-SKEEPS.4,094, A. H. GILMAN.
SPINDLES FOR SPINNING.106,290, ROBERT SKINNER.
RICHARD GAINES.
MACHINES FOR THE MANUFACTURE
OF COMPOSITION PIPES FOR
DRAINAGE.4,095,
FERDINAND LEROY, ADMINISTRATOR.
AND P. A. VICTOR LE LUBEZ,
ASSIGNEE OF FERDINAND LEROY,
DECEASED,
COMPOSITION FOR COVERING
STEAM-BOILERS AND FOR OTHER
PURPOSES.106,296, WILLIAM H. WELCH.
WASHING-MACHINES.4,096, ELISHA P. WHEELER. SAWS.
EDWARD M. MADDEN.
WM. CLEMSON.106,291, GEORGE E. SOMERS.
CUTTER-HEADS.106,297,
WILLIAM WELLS.
CAR-SEATS.106,298,
WILLIAM WELLS.
BOX OR CASE
FOR HOT-BEDS.106,299, SAMUEL R. WESTCOTT.
STOPPING MECHANISM FOR
SPINNING AND OTHER MACHINES.4,097, SAMUEL WISWALL.
EXTENSION WASH-BENCH.

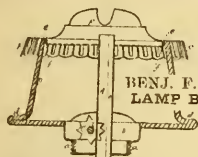
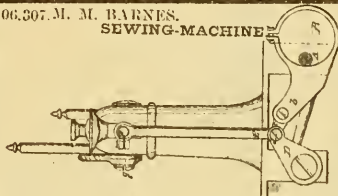
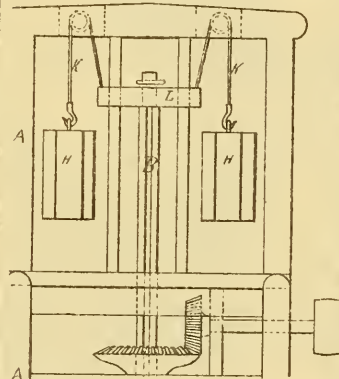
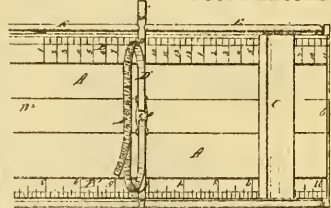
ILLUSTRATIONS OF PATENTS

ISSUED FROM

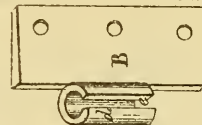
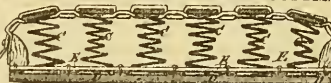
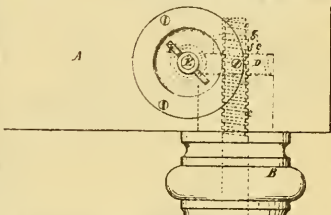
THE UNITED STATES PATENT OFFICE

AUGUST 16, 1870.

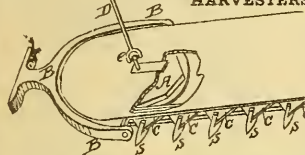
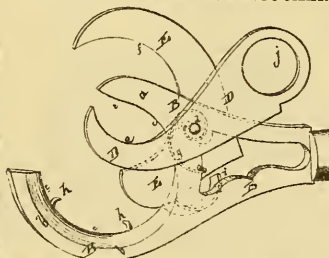
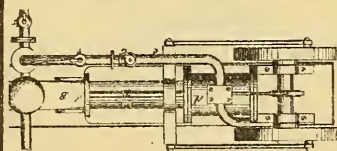
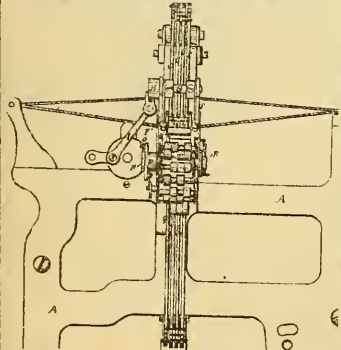
106,302. BENJ. F. ADAMS. LAMP-BURNERS

106,303.
BENJ. F. ADAMS.
LAMP BURNER.106,307. M. M. BARNES.
SEWING-MACHINE.106,308. CHARLES BATEMAN.
STONE-SAWING MACHINE.106,313. GUSTAVE BOURGADE.
COMPOUND FOR FERTILIZER.106,314. JOHN C. F. BREMSER.
FOOT-MEASURES.

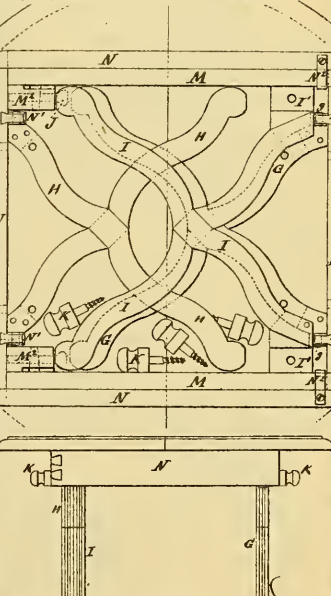
106,315. JOHN DAVID BROWNE. RINGES.

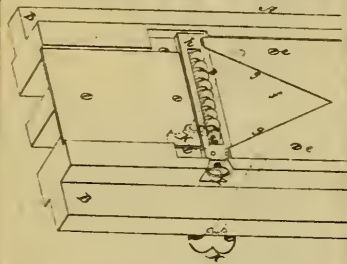
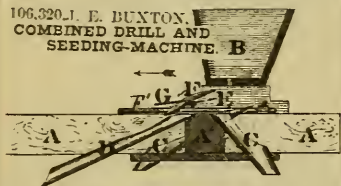
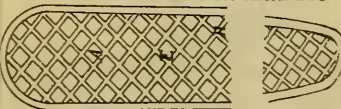
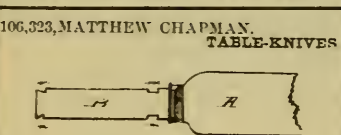
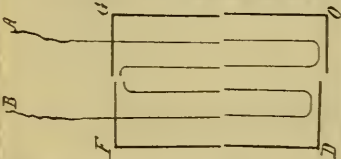
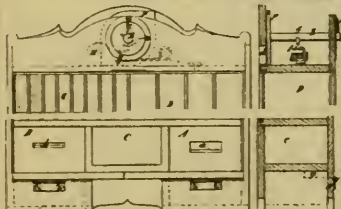
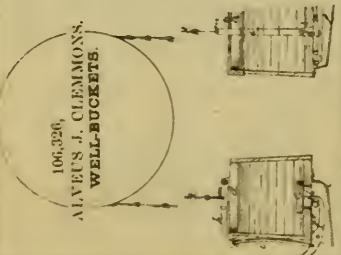
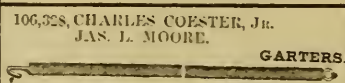
106,316. CHAS. T. BAADÉ.
SPRING BED-BOTTOM.106,317. BUCKLAND W. BULL.
DEVICE FOR LEVELING BILLIARD
AND OTHER TABLES. &c.

106,305. H. C. AYDELOTT.

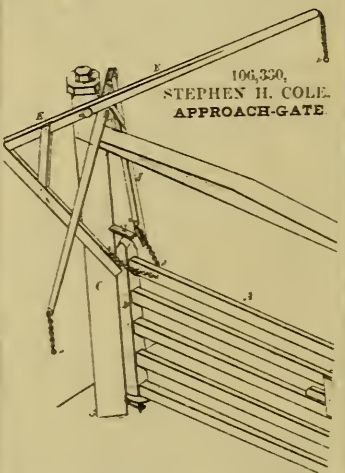
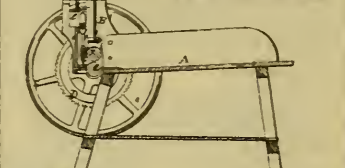
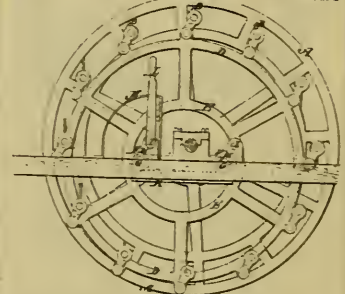
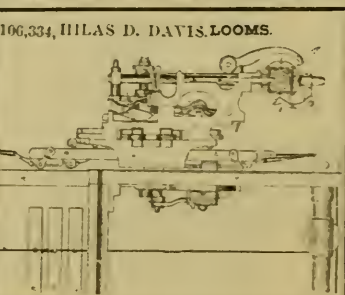
CUTTING APPARATUS FOR
HARVESTERS.106,310. HIRAM BIGELOW.
CHISEL FOR CUTTING GAINS.106,311. SAM'L L. BLIGH.
HAND CORN-HUSKER.106,312. THOMAS E. BLUNT.
STEAM PUMPING-ENGINES.106,306. JOHN ASHWORTH. HARNESS-
OPERATING MECHANISM FOR LOOMS.

106,318. ERNST BRÜCKER. TABLE.

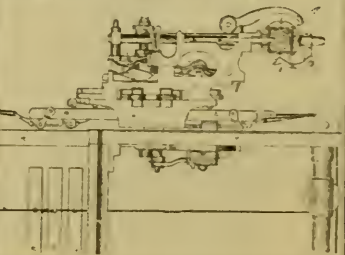
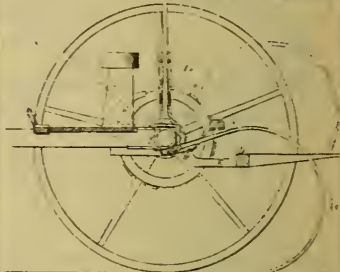


106,319, DENSLOW BIRRIANS, MACHINE
FOR MAKING MATCH-SPLINTS.106,320, J. E. BUXTON,
COMBINED DRILL AND
SEEDING-MACHINE. B106,321, JAMES CORMAC,
ALEXANDER STOBBS.
PADDING FOR HARNESS106,322, DUDLEY B. CHAPMAN,
MANUFACTURE OF RESIN SOAP.106,324, CHARLES T. CHESTER,
PROTECTING SAFES AND VAULTS
FROM BURGLARS106,325, WM. M. CLARK,
ALEX. CLARK,
POST-OFFICE CABINET FOR SUNDAY
-SCHOOL AND OTHER ROOMS106,326,
ALFRED J. CLEMONS,
WELL-BUCKETS.106,327, WILLIAM B. COATES,
ROOFING-FELT.106,328, CHARLES COESTER, JR.,
JAS. L. MOORE.

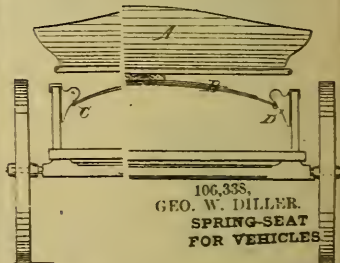
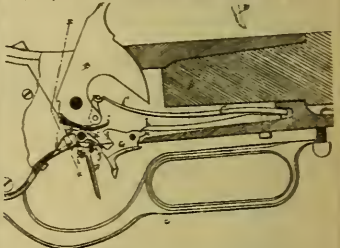
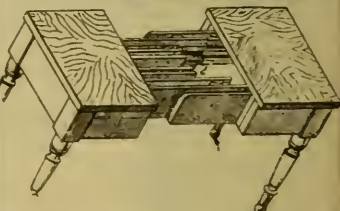
GARTERS.

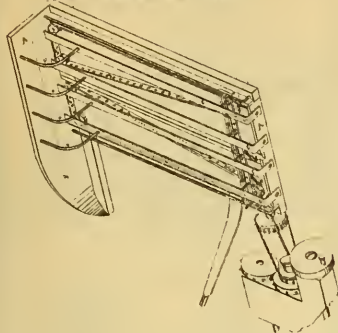
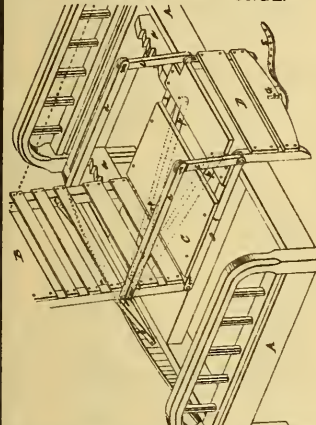
106,329, S. COLAHAN,
STRAW-CUTTERS.106,330,
STEPHEN H. COLE,
APPROACH-GATE106,331, RICHARD H. CONNELLY,
PADDLE-WHEELS106,332, JOHN D. CROCKER,
STRETCHER FOR PICTURE-FRAMES.106,333, JOHN CUSHINGS,
COMPOUND FOR CURE OF COUGHS. &c

106,334, HILAS D. DAVIS, LOOMS.

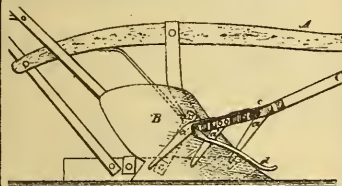
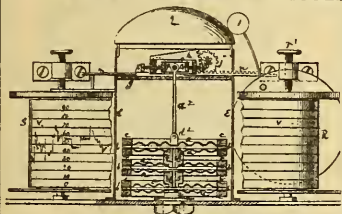
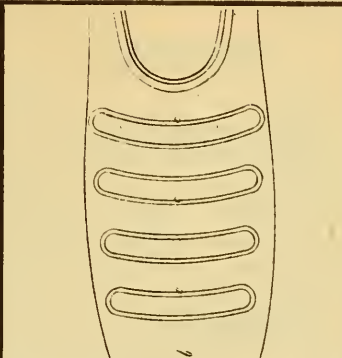
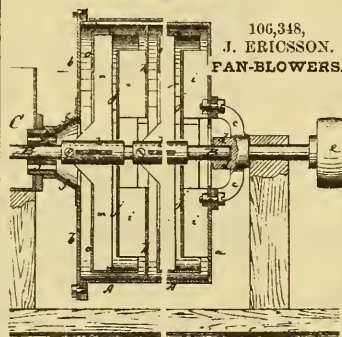
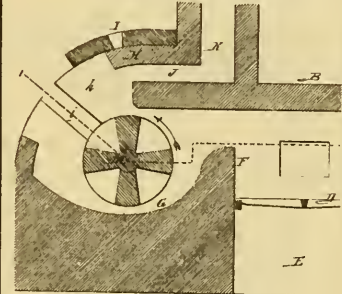
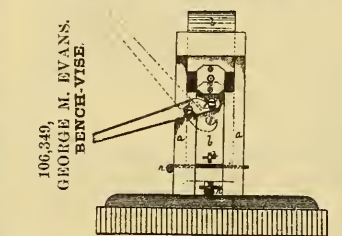
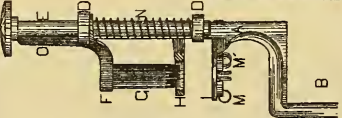
106,335,
HILAS D. DAVIS,
SHEAVES.106,333, S. L. DENNEY
HORSE HAY-RAKES.

106,337, JOSEPH DEUTZ, GUN-LOCKS.

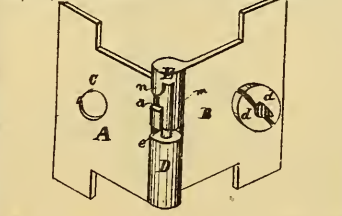
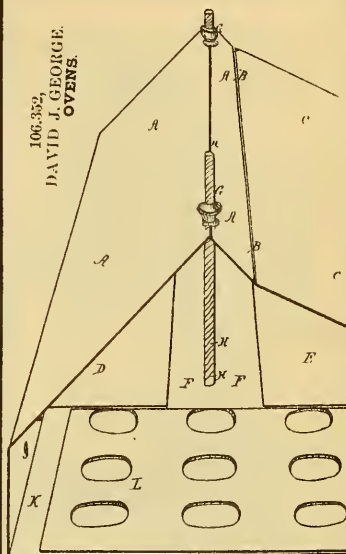
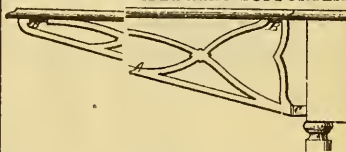
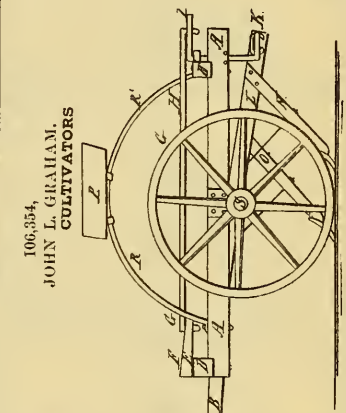
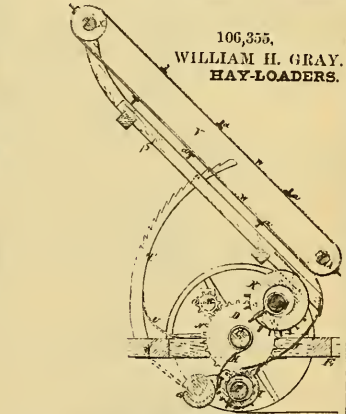
106,338,
GEO. W. DILLER,
SPRING-SEAT
FOR VEHICLES106,339, JOSEPH DIXON,
MATTHEW B. SAMPSON,
PITMAN CONNECTIONS FOR
HARVESTERS.106,340, WILLIAM DONOGHUE,
EXTENSION-TABLE SLIDE.106,341,
WILLIAM DUNCAN,
HAMES FOR HARNESS

106,342, WILLIAM T. EASTES.
HARVESTER-RAKES.106,343, WILLIAM T. EASTES.
INVALID CHAIR AND LOUNGE.

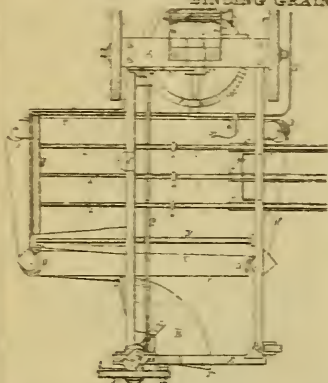
106,344, ISAAC EASTWOOD. PLOWS.

106,345, JARVIS B. EDSON.
RECORDING PRESSURE-GAUGES.106,346, LEWIS ELLIOTT, JR.
GEO. H. FOWLER.
INDIA-RUBBER SHOES.106,347, WILLIAM ENNIS.
MANUFACTURE OF WROUGHT AND
PUDDLED IRON106,348,
J. ERICSSON.
FAN-BLOWERS.106,349,
GEORGE M. EVANS.
BENCH-VISE.106,350, HENRY G. FISKE.
RAISIN-SEEDER

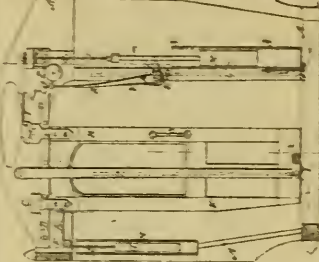
106,351, CHARLES GAYLORD. HINGES.

106,352,
DAVID J. GEORGE.
OVENS.106,353, GEO. L. GERARD.
TABLE-LEAF SUPPORTER.106,354,
JOHN L. GRAHAM.
CULTIVATORS.106,355,
WILLIAM H. GRAY.
HAY-LOADERS.106,356, R. J. GREELY.
BUCKLES WITH BUTTON
-HOLE ATTACHMENT.

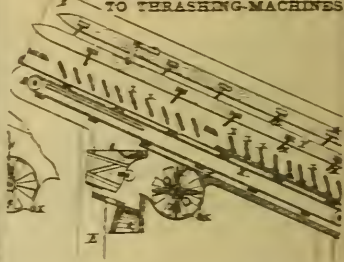
106357. THOMAS K. GRIFFITH.
APPARATUS FOR RAKING AND
BINDING GRAIN



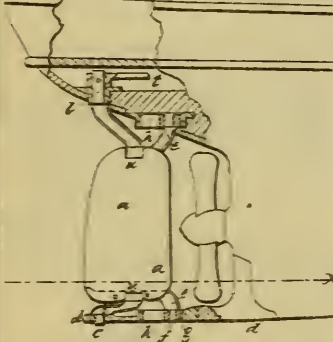
106362. DANIEL R. HABT
DOORS FOR STREET-CARS



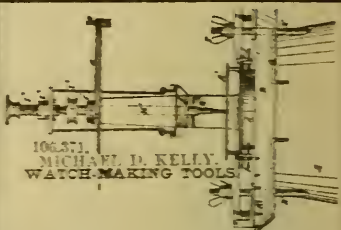
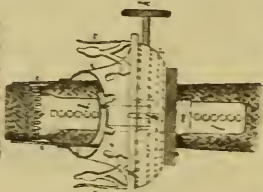
106370. MOSES A. NELLER.
SEPARATOR ATTACHMENTS
TO THRASHING-MACHINES



106358. CHARLES GODFREY GUMPEL.
STEERING APPARATUS.

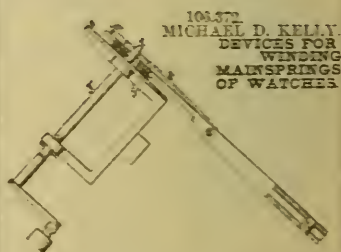
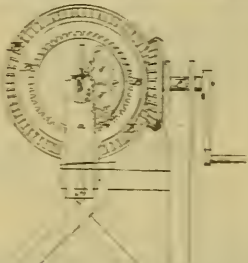


106363.
H. W. HAYDEN.
LAMP-BURNER

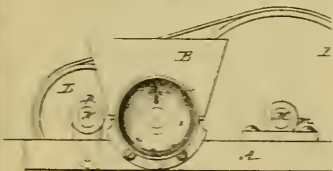


106371.
MICHAEL D. KELLY.
WATCH-MAKING TOOLS.

106364. WILLIAM H. HEFFLEY.
MACHINE FOR TURNING AXLE-TREES



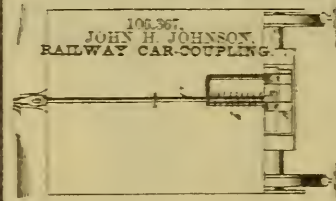
106372.
MICHAEL D. KELLY.
DEVICES FOR
WINDING
MAINSPRINGS
OF WATCHES.



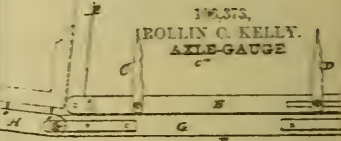
106359.
GEORGE B. HAMLIN.
MACHINES FOR PREPARING APPLES
FOR THE MANUFACTURE OF CIDER

106365. JAMES HENDERSON.
THE MANUFACTURE OF IRON
AND STEEL

106366. EUGENE IRON.
THE MANUFACTURE OF BOOT
AND SHOE-SOLES

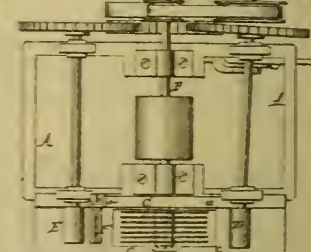


106367.
JOHN H. JOHNSON.
RAILWAY CAR-COUPLING.

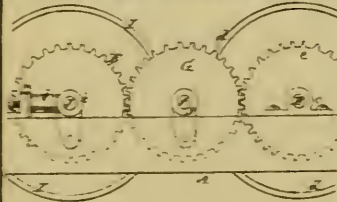


106373.
ROLLIN O. KELLY.
AXLE-GAUGE

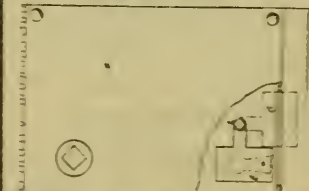
106374. JOHN L. KNOWLTON.
LATH-MACHINE.



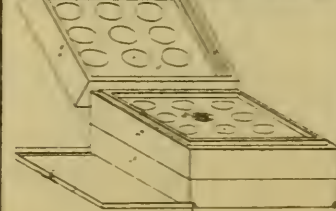
106360. GEORGE B. HAMLIN GEARING
AND SELF-ADJUSTING SHAFTS.



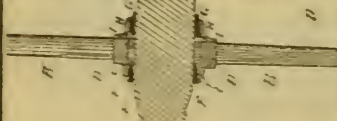
106368. J. HILTON JONES.
KEY-HOLE GUARDS.



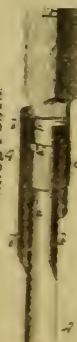
106369. EDWARD E. JOSEFF.
EGG-CARRIERS



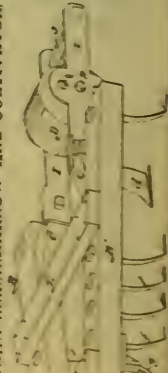
106361. JOHN B. HART. WHEEL-HUES

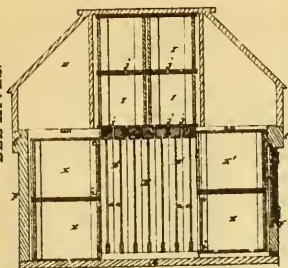
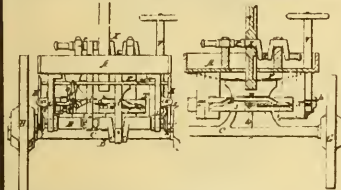
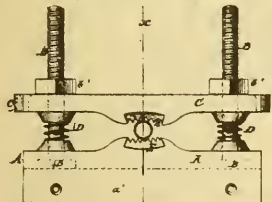
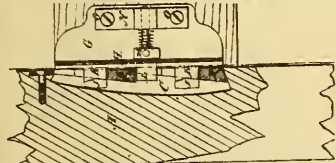
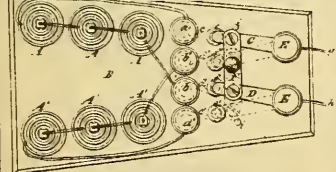
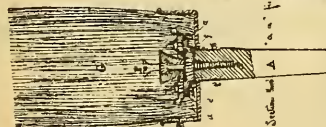
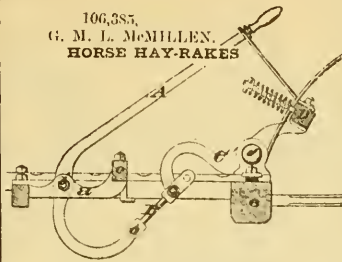
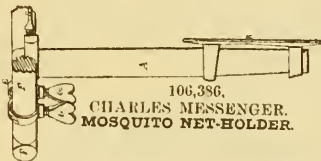
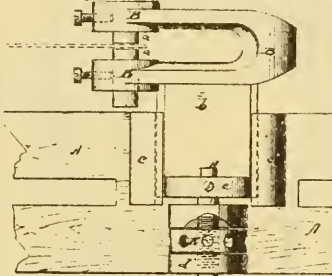
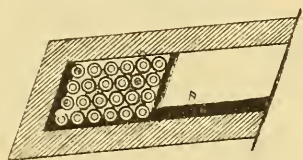
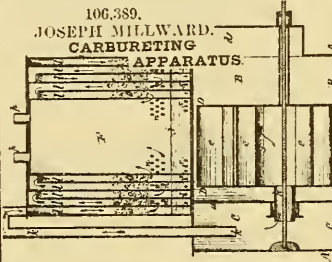
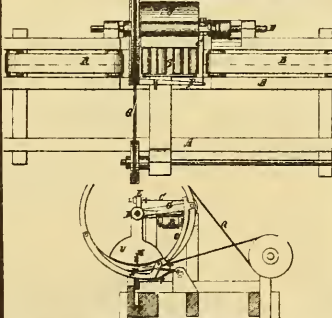
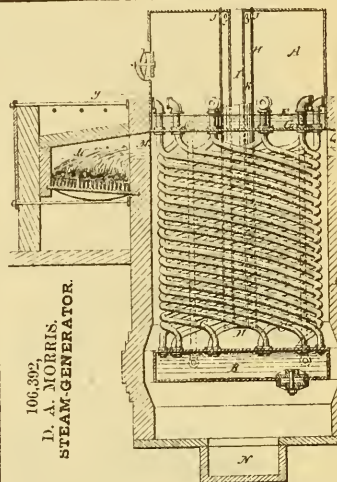
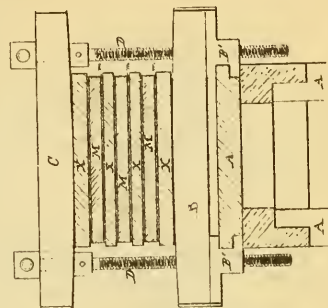
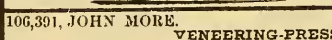
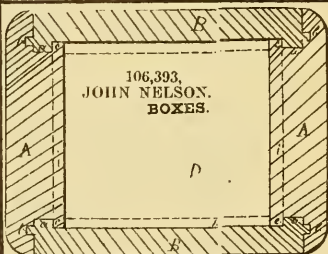
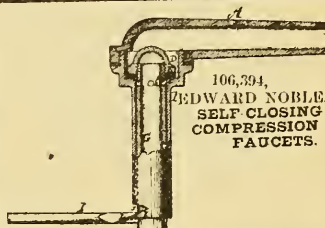
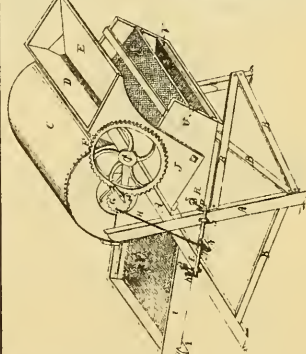


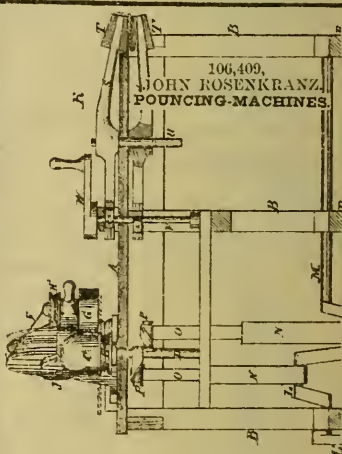
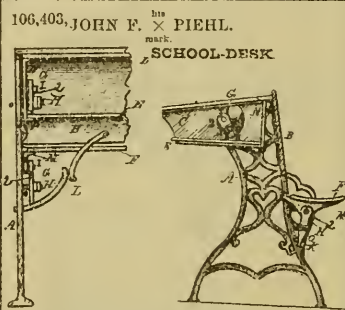
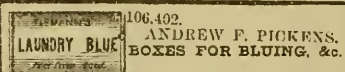
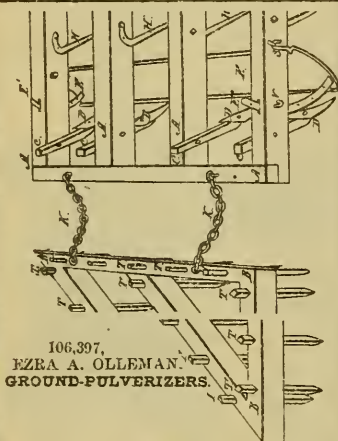
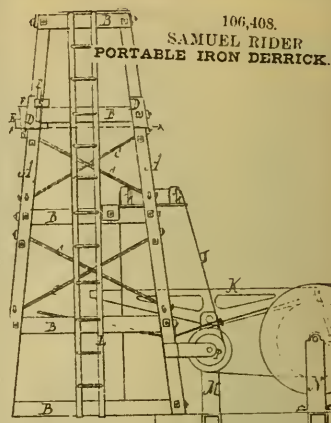
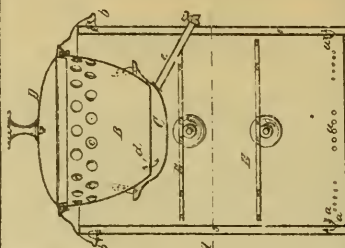
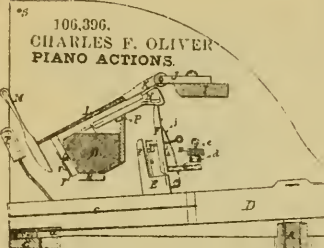
106375. ORVILLE L. PARKIN.
FENCE-POSTS.



106376.
JOHN L. MERRILL. HARROW AND CULTIVATOR.



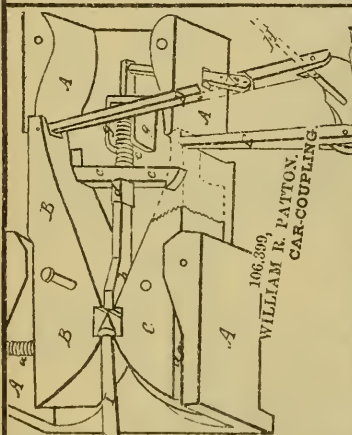
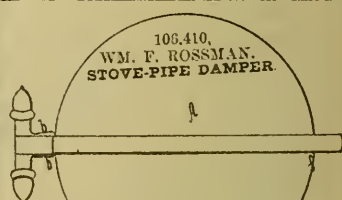
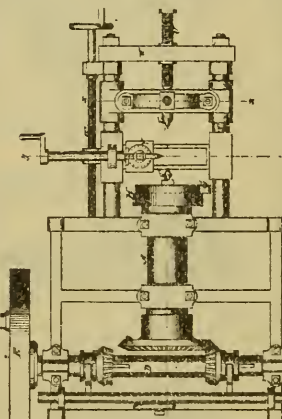
106,377, V. LEONARD.
BEE-HIVES.106,378, AARON R. LOCKE.
RAILWAY CARRIAGES.106,379, DAVID MARSHALL.
CARRIAGE-JACK.106,380, THOMAS MARSHALL.
PORTABLE GAS-PIPE VISE.106,381, FRANK W. MARSTON.
CORSET-SPRINGS.106,382, PRES. MAULDING.
JNO. U. FRALEY.
BEDSTEAD-FASTENING.106,383, EDWIN D. McCracken.
GALVANIC BATTERIES.106,384, ALVIN McDONALD.
JAS. M. WHITE.
PAINT-BRUSH.106,385,
G. M. L. McMILLEN.
HORSE HAY-RAKES.106,386,
CHARLES MESSENGER.
MOSQUITO NET-HOLDER.106,387, ALEXANDER MIDDLEBROOK.
GUIDE FOR CIRCULAR SAWS.106,388, JOSEPH A. MILLER.
STEAM-GENERATORS.106,389,
JOSEPH MILLWARD.
CARBURETING
APPARATUS.106,390, OSCAR F. MONFORT.
TIRE-CUTTING MACHINE.106,391, JOHN MORE.
VENEERING-PRESS.106,392,
D. A. MORRIS.
STEAM-GENERATOR.106,393,
JOHN NELSON.
BOXES.106,394,
EDWARD NOBLE.
SELF CLOSING
COMPRESSION
FAUCETS.106,395, HARRISON OGBORN.
FANNING-MILLS.



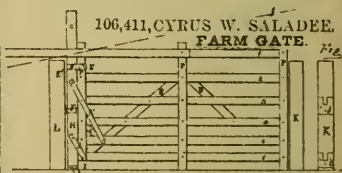
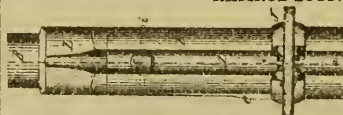
106,398, W. E. OSBORN, HAND-STAMPS.



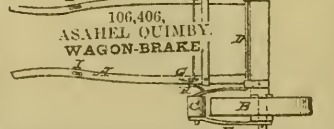
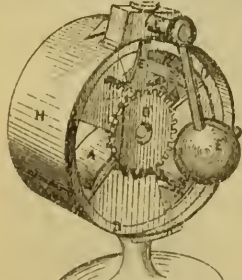
106,404, PHILIP, H. PUTTS, LATHES.



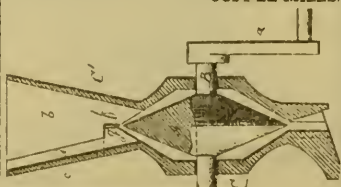
106,405, SAMUEL W. PORTER, RAMROD-STOP.



106,400, ANDREW J. PEAVEY, GOVERNORS FOR STEAM-ENGINES.

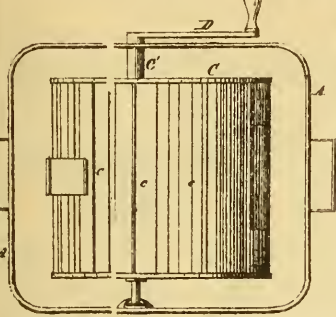


106,407, FRANCOIS CHARLES RICHER, COFFEE-MILLS.

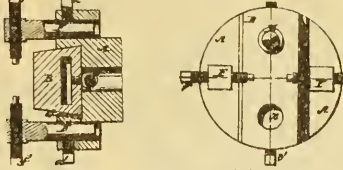


106,401, E. PERKINS, REFRIGERATOR.

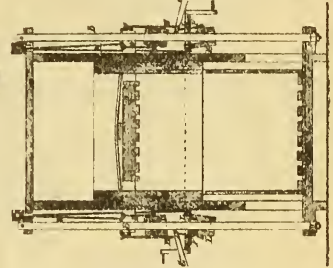
106,414, JOHN SLATER.
WASHER AND BOILER.



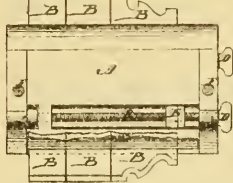
106,420, CHARLES F. STACKPOLE.
SLIDE-CHUCK FOR LATHES.



106,427, GEORGE W. SWINEBROAD.
PRESSES FOR HAY, COTTON, &c.



106,421, DARIUS STEVENS, CUTTER-
HEAD FOR PLANING-MACHINE.



106,428, ASHER S. TAYLOR.
BEVERAGE, OR "CHAMPAGNE MEAD."



106,415, CHAS. H. SMITH
TATTING-SHUTTLE.



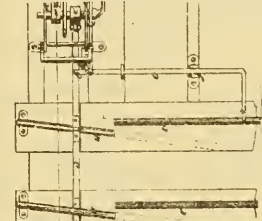
106,429, GILBERT FISK TAYLOR.
GEAR FOR
CARPET-SWEEPING
MACHINES.



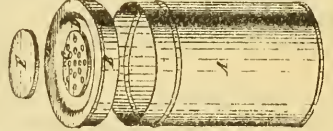
106,422, ISAAC W. STEWART, DIAPER-PIN.



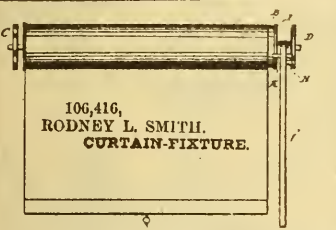
106,423, J. H. STOCKTON.
RAILWAY SWITCH.



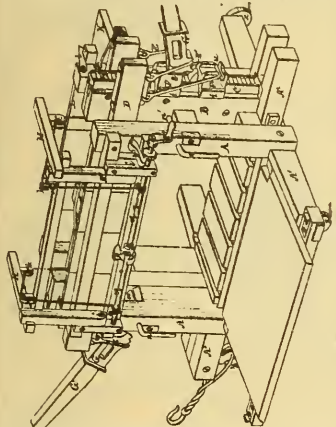
106,430, AUGUSTUS F. TRIPP.
DREDGE-BOX.



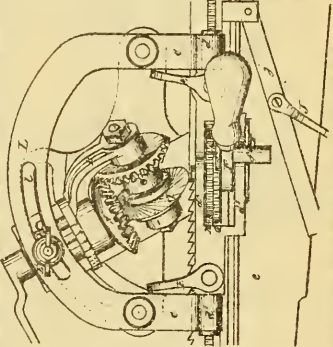
106,416,
RODNEY L. SMITH.
CURTAIN-FIXTURE.



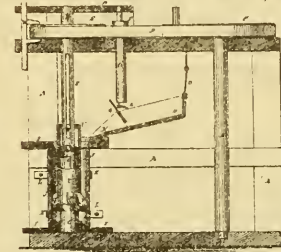
106,417, WM. M. SMITH.
COTTON AND HAY-PRESSES.



106,431, WILLIAM TUCKER.
SAW-FILING MACHINE.



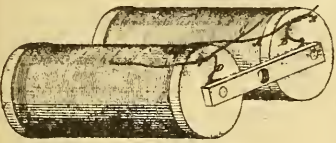
106,424, JOHN W. STOCKWELL.
WATER-PIPE MACHINE.



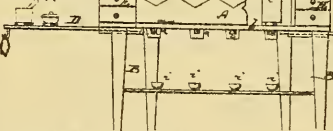
106,432, ALMON TWING, REVERSIBLE
CENTER PINION FOR WATCHES.



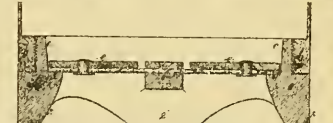
106,418, W. W. SMITH.
ELECTRO-MAGNETS.



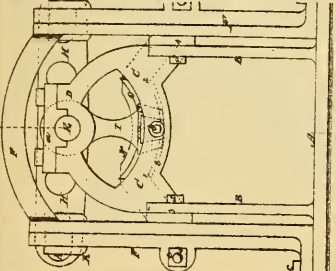
106,425,
OTTO STOECKER.
BARBERS FURNITURE.



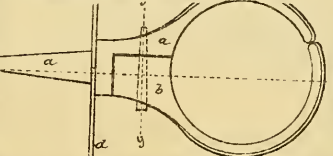
106,433, HENRY VAN KEUREN, PUMPS.



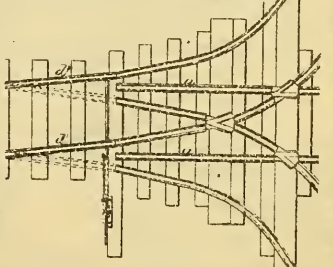
106,419, J. H. SNYDER.
MACHINES FOR MAKING CHAIN-LINKS.

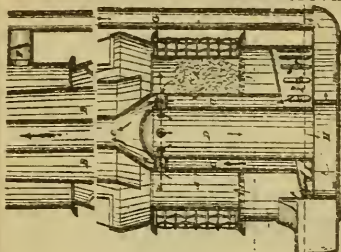
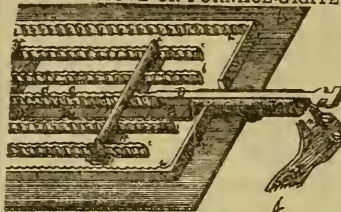
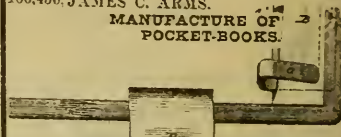
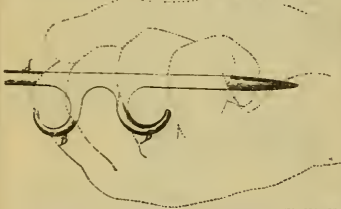
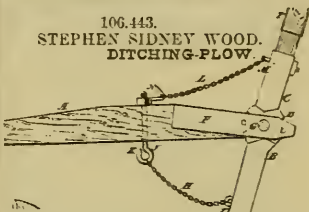
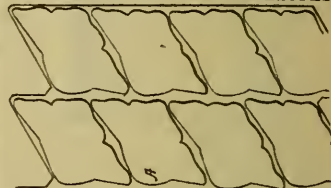
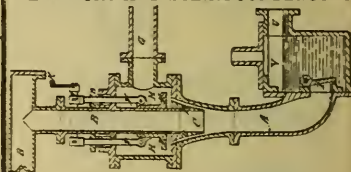
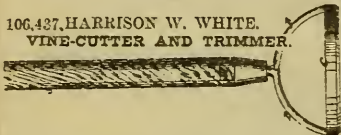
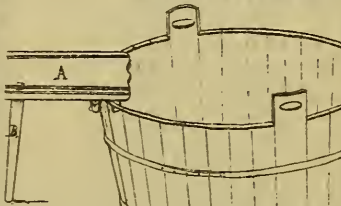
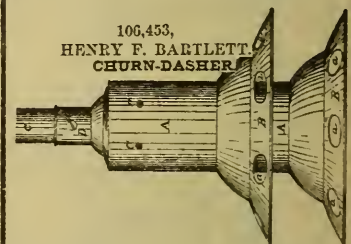


106,426, RICHARD STREET.
CLASPS FOR LIGHTNING-RODS.

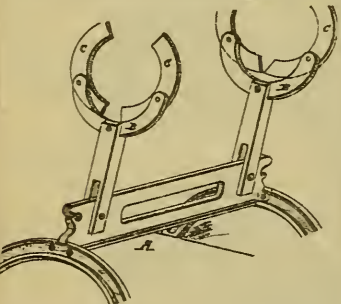
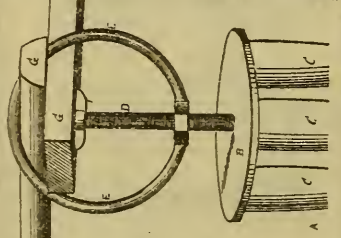
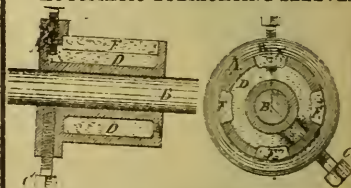
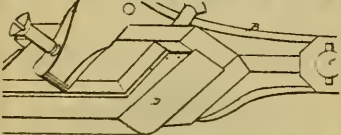


106,434, HORACE S. WEAVER.
RAILWAYS.

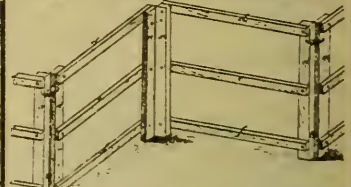
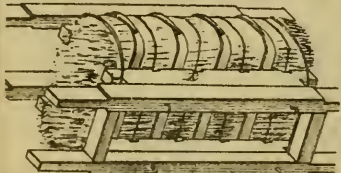
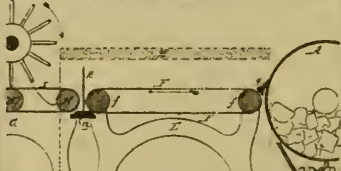
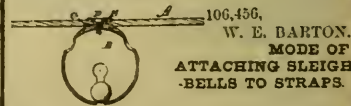
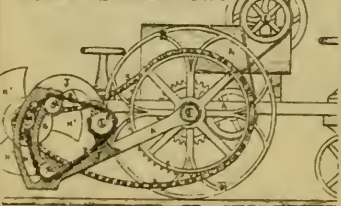
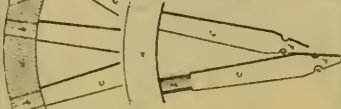
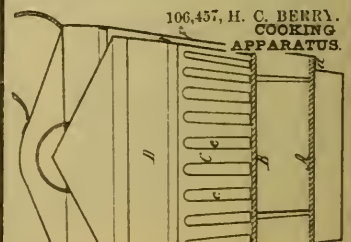


106,435, ALBERT G. WEBSTER.
BASE-BURNING STOVE.106,442, GEORGE A. WING.
STOVE OR FURNACE-GRATE.106,450, JAMES C. ARMS.
MANUFACTURE OF
POCKET-BOOKS.106,436, DWIGHT F. WELSH.
CORN-HUSKERS.106,443,
STEPHEN SIDNEY WOOD.
DITCHING-FLOW.106,451, JAMES RALL.
MANUFACTURING ENVELOPES.106,452, ANDREW BARCLAY.
EJECTORS AND STEAM-CONDENSERS.106,437, HARRISON W. WHITE.
VINE-CUTTER AND TRIMMER.106,444,
GILBERT I. WOOSTER.
HAY-SPREADERS.106,445, ALLEN P. YOUNG.
PORTABLE BATH-SEAT.106,453,
HENRY F. BARTLETT.
CHURN-DASHER.

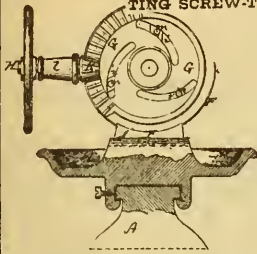
106,438, ABEL WHITLOCK. SAW-JACK.

106,446, NICHOLAS YOUNG.
QUILTING-FRAME HOLDER.106,454, SAM. R. BARTLETT.
AUTOMATIC LUBRICATING-SLEEVE.106,439, THERON R. WILLIAMS.
MACHINERY FOR WORKING HIDES.
SCOURING LEATHER, &c.

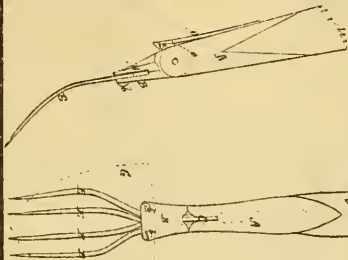
106,455, WILLIAM BARTLETT. FENCE.

106,440, WM. J. WILLSON.
PRESSES FOR BAILING BROOM-CORN.106,447, ANDY M. ADAMS.
WOOD PAVEMENTS.106,448, WM. ADAMSON.
THE MANUFACTURE OF GLUE.106,456,
W. E. BARTON.
MODE OF
ATTACHING SLEIGH
-BELLS TO STRAPS.106,441, JAMES T. WILSON.
ROTARY STEAM-FLOWS.106,449, EDWD. A. ARCHIBALD.
MANUFACTURE OF WHEELS.106,457, H. C. BERRY.
COOKING
APPARATUS.

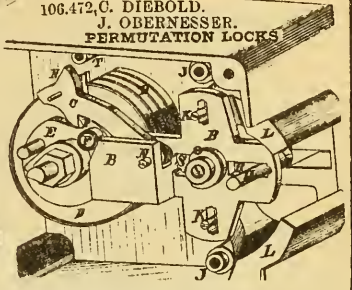
106,458, GEORGE BLAKE.
MACHINES FOR CUTTING OFF SHAFTS
AND PIPES AND FOR CUT-
TING SCREW-THREADS.



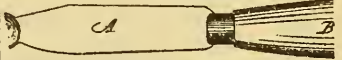
106,464, JESSE CARPENTER.
COMBINED SHOVEL AND DUNG-FORK.



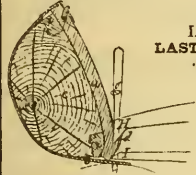
106,472, C. DIEBOLD.
J. OBERNESSER.
PERMUTATION LOCKS



106,473, FRED. DURAND.
WM. F. GILBERT.
VEGETABLE-KNIVES.

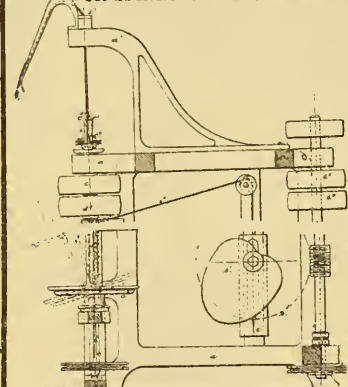


106,459,
LYMAN R. BLAKE.
LASTS FOR MACHINE-
SEWED TURNED
SHOES.



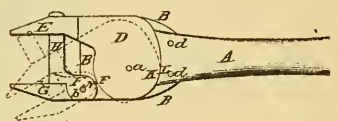
106,465, FERDINAND CASSEL.
PRESERVATION OF MEAT AND
OTHER ARTICLES OF FOOD.

106,466, HENRY A. CHAPIN, MACHINE
FOR SPINNING FLAX, HEMP, &c.

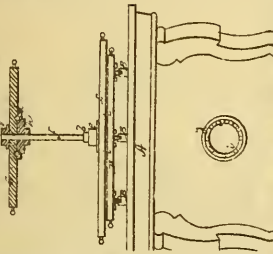


106,474, THEODOR G. EISWALD.
MEDICAL COMPOUND FOR
THE CURE OF GRAVEL

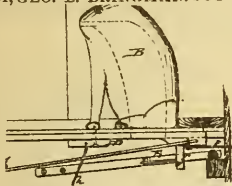
106,475, HENRY FESSLER, WRENCHES.
R. V. JONES.



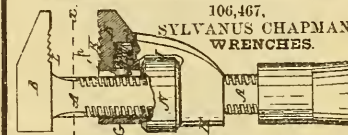
106,460,
MINOR P. BOYD.
DINING-TABLE.



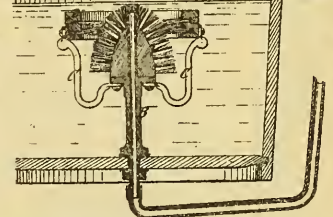
106,461, GEO. E. BRINGMAN, TOY TOAD.



106,467,
SYLVANUS CHAPMAN.
WRENCHES.



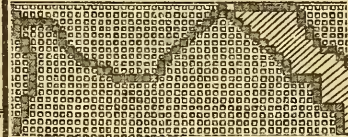
106,476, ADOLPH FISCHER.
BRUSH FOR CLEANING TUMBLERS.



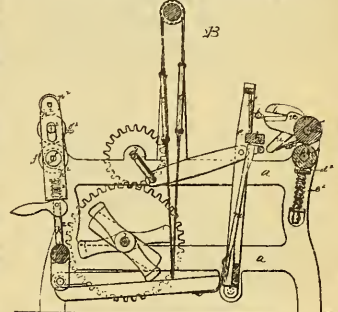
106,462, HEMAN P. BROOKS.
BREAD-TOASTER.



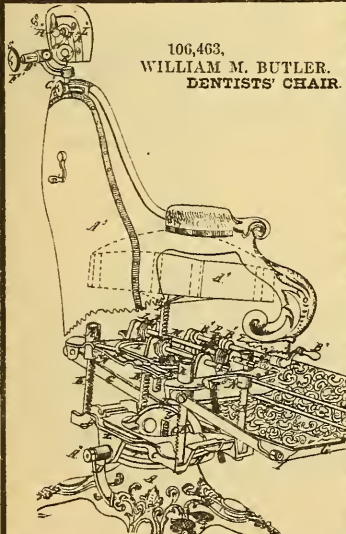
106,468, THOMAS CROSSLEY.
BLOCKS FOR CARPET-PRINTING.



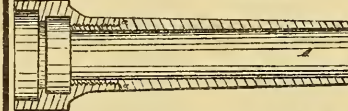
106,477, SAMUEL L. FITTS.
LOOM FOR WEAVING RATTAN.



106,463,
WILLIAM M. BUTLER.
DENTISTS' CHAIR.



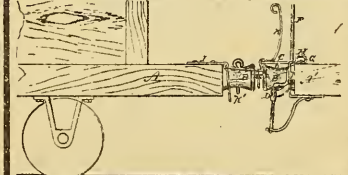
106,469, DAVID DALZELL, AXLE-BOX.



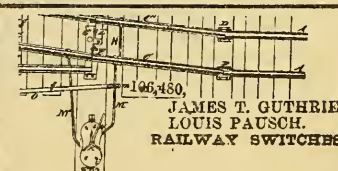
106,470, DAVID DALZELL.
AXLE FOR VEHICLES.



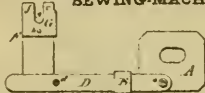
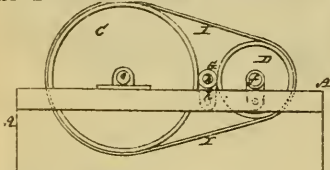
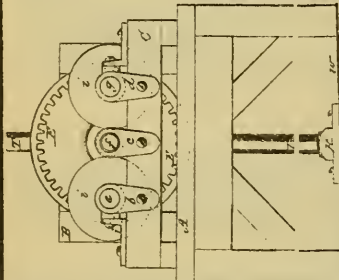
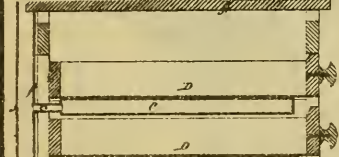
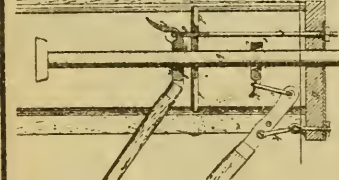
106,471, J. L. DEVOL.
A. L. PEADRO.
RAILWAY CAR-COUPLING.



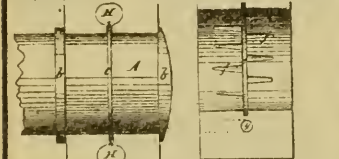
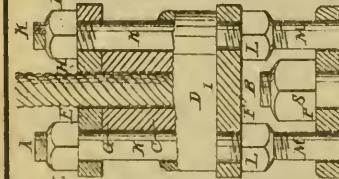
106,479, FRANZ GRAUPNER.
COMPOSITION TO BE USED IN DYEING.



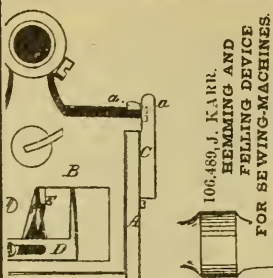
106,480,
JAMES T. GUTHRIE.
LOUIS PAUSCH.
RAILWAY SWITCHES

106,481, HENRY M. HALL.
RUFFLING ATTACHMENT FOR
SEWING-MACHINES.106,482, GEORGE B. HAMLIN.
STALK AND KINDLING-WOOD CUTTER.106,483, GEORGE B. HAMLIN.
HORSE-POWERS.106,484, HENRY HENLEY.
FRUIT-DRIER.106,485, FRANK HOLLENBERRY.
HOISTING-JACK.

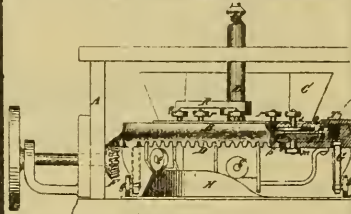
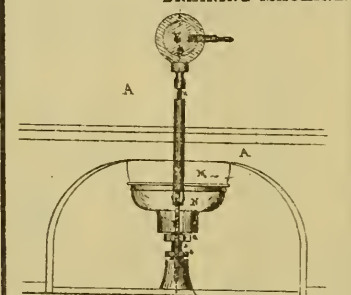
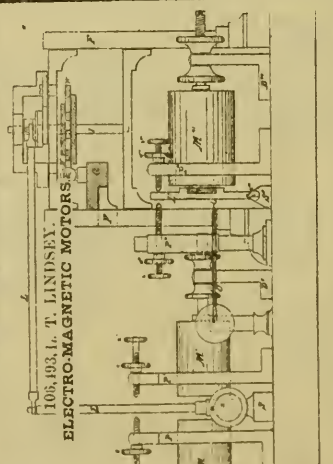
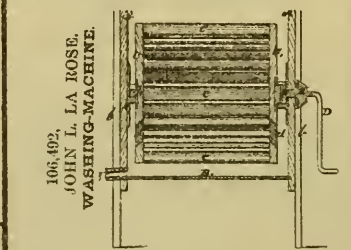
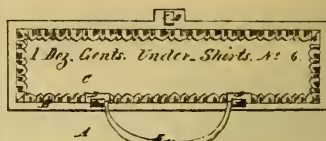
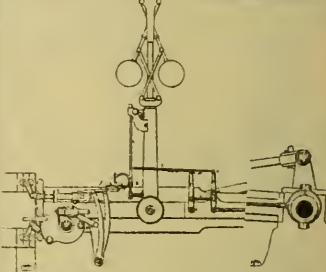
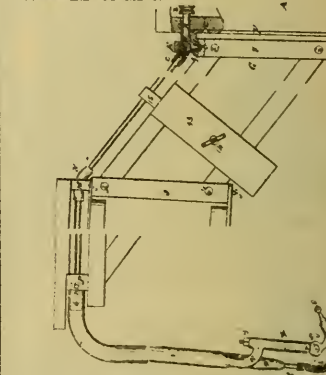
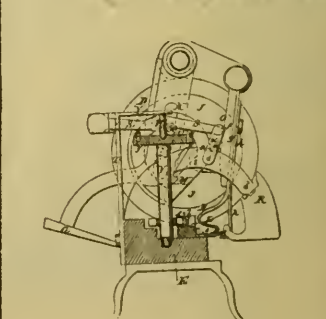
106,486, JNO. HUGHES. JOURNAL-BOX

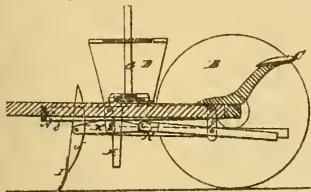
106,487, WM. CARLTON IRELAND.
COUPLING FOR WIRE RIGGING.

2106,488, JOS. L. JOYCE. SHOES.

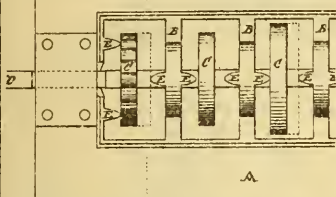
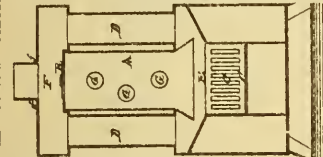
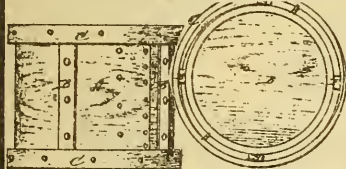
106,489, J. KARR.
HEMMING AND
FELLING DEVICE
FOR SEWING-MACHINES.

106,490, JOHN KELLER. BRICK-MACHINE.

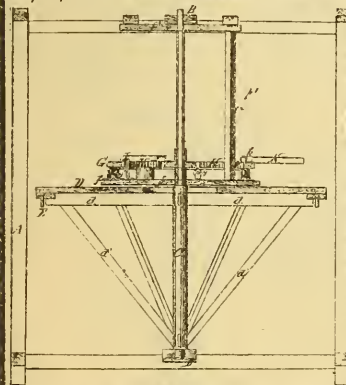
106,491, ROBERT LAFFERTY.
HUGH W. LAFFERTY.
CENTRIFUGAL SUGAR-
DRAINING MACHINE.106,492,
JOHN L. LA ROSE.
WASHING-MACHINE.106,493, L. T. LINDSEY.
ELECTRO-MAGNETIC MOTOR.106,494, HENRY MANNECK.
COMBINATION OF LABEL-HOLDER
AND HANDLE.106,495, DAVID MAYDOLE.
SPRINGS FOR PISTON PACKING.106,496,
ALEXANDER MCGUIRE.
HANDLES FOR CASKETS.106,497, HERMANN MOHR.
STEAM-ENGINES106,498, J. B. MORRISON.
FLEXIBLE SHAFT.106,499, EDWARD MORSE.
KNITTING-MACHINES.

106,500, WASHINGTON B. MYERS.
SEEDERS AND FERTILIZERS COMBINED.

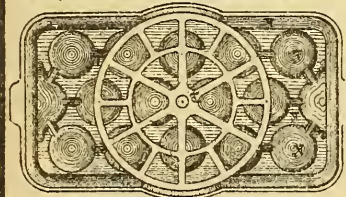
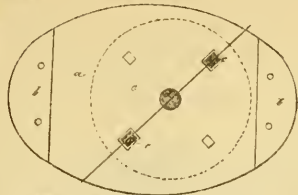
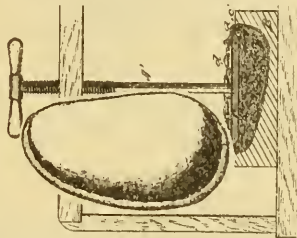
106,501, ANDREW PATTERSON. NAILS.

106,502, MERRITT PECKHAM.
FIRE-GRATES.106,503, MERRITT PECKHAM.
BASE-BURNING STOVE.106,504, JOHN POTTER.
TOBACCO-BOX OR DRUM.

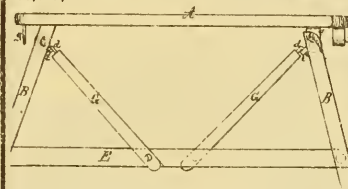
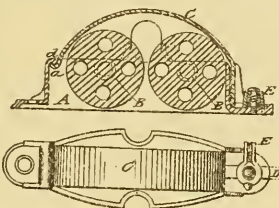
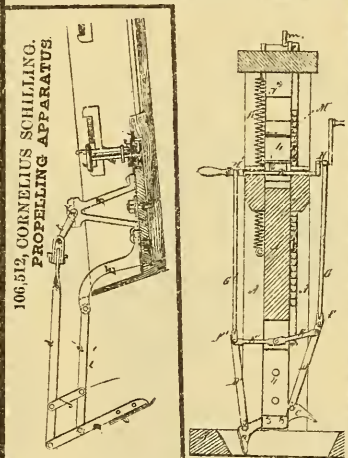
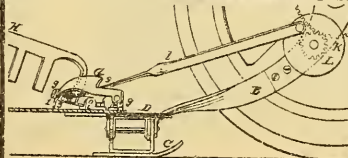
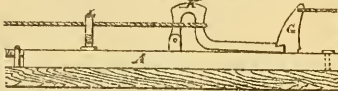
106,505, T. B. PYRON. HORSE-POWER.



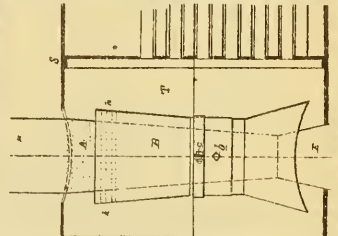
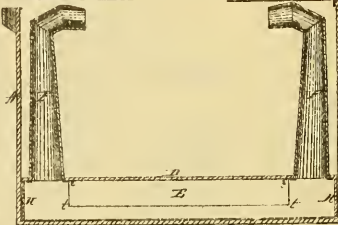
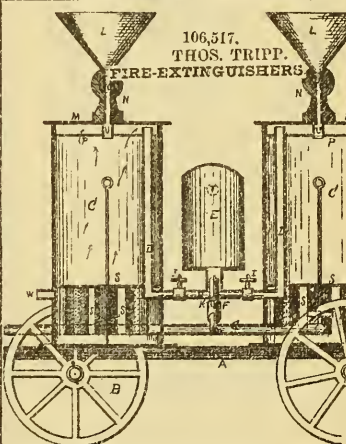
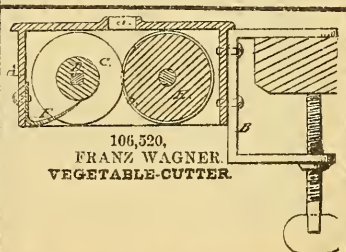
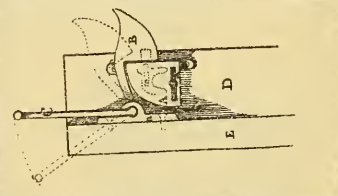
106,506, ADAM REID. DRIPPING-PAN.

106,507, THOMAS H. RICE.
SHEAVE-BLOCKS.106,508, S. S. RITTER.
MANUFACTURE OF TRUSS-PADS.

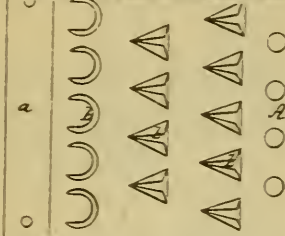
106,509, JAS. H. RUFF. IRONING TABLE.

106,510, J. B. SARGENT.
GRINDSTONE JOURNAL-BOX.106,511, GEO. T. SAVARY.
MORTISING-MACHINE.106,512, JACOBS W. SCHUCKERS.
HARVESTER-RAKES.106,514, LEONARD R. SHIPMAN.
TOWING-HOOKS FOR CANAL-BOATS.

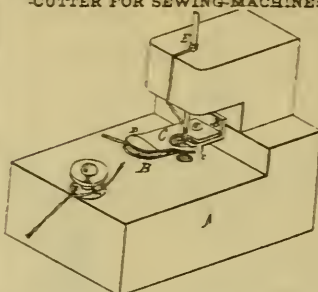
106,515, JAS. SMITH. SPARK-ARRESTERS.

106,516, O. F. STEDMAN
WASH BOILER.106,517,
THOS. TRIPP.
FIRE-EXTINGUISHERS.106,518, WM. P. VAN DEURSEN.
COMPOUND
FOR EXTINGUISHING FIRES.106,519, HENRY R. VAN EPS COMBINED
LATCH AND LOCK FOR GATES.106,520,
FRANZ WAGNER.
VEGETABLE-CUTTER.

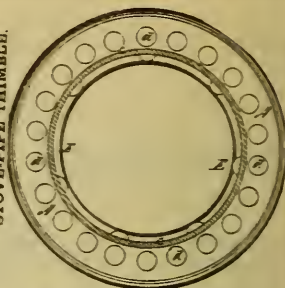
106,521, R. WARD, STOVE-GRATE.



106,526, CORNELL J. WOOD, THREAD-CUTTER FOR SEWING-MACHINES.



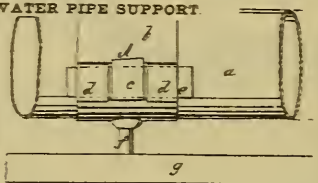
1,098, THOMAS K. ANDERSON, STOVE-PIPE THIMBLE.



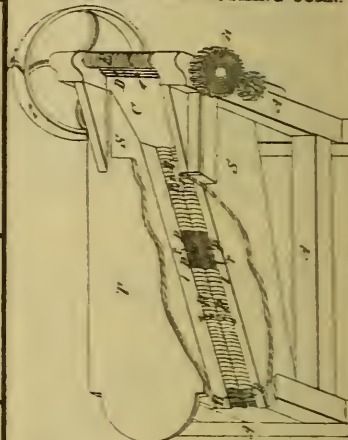
106,522, THOMAS WARD, VAPOR-BURNERS.



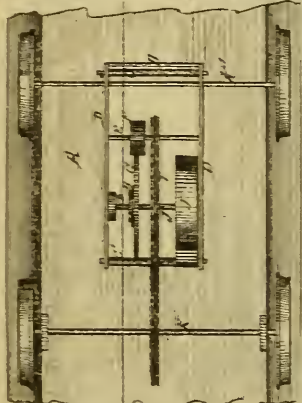
106,527, C. D. WOODRUFF, WATER PIPE SUPPORT.



4,099, L. AUGS. ASPINWALL, MACHINE FOR HUSKING CORN.



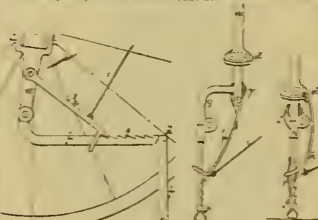
106,523, WILLIAM MEDD WATSON, MOTIVE POWER.



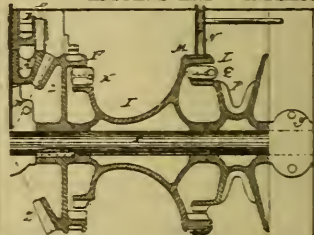
106,528, C. D. WOODRUFF, VENTILATOR FOR STOVE-PIPES.



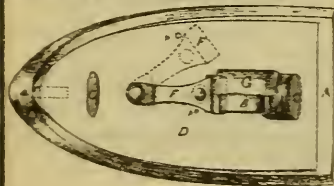
106,529, C. WYNDHAM, VELOCIPEDE.



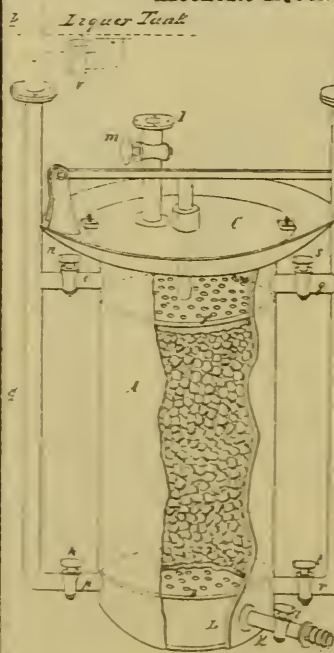
4,100, DAVID N. B. COFFIN, JR., BENJAMIN WOODWARD, CAPSTANS AND WINDLASSES.



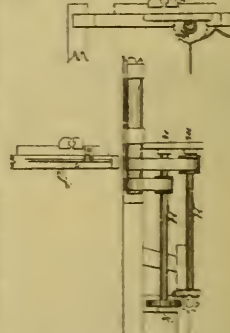
106,524, WM. WEBSTER, SADDLE-IRON.



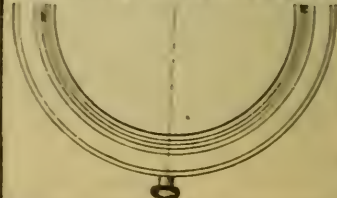
106,530, CH. L. FLEISCHMANN, APPARATUS FOR RECTIFYING ALCOHOLIC LIQUORS.



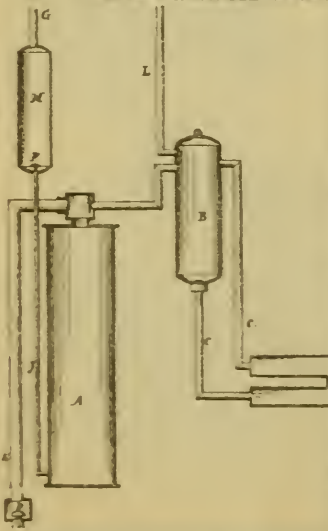
4,101, ALEXANDER MCCREIGHT, SAW-MILLS.



4,102, WM. WILMINGTON, CHILLS FOR CASTING CAR-WHEELS.

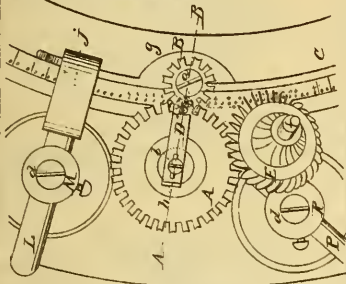


106,525, HENRY MORSE WIGHTMAN, STEAM WATER-ELEVATORS.

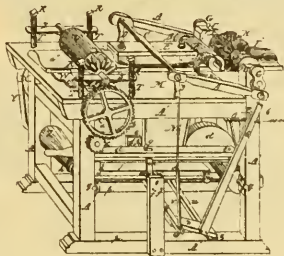


ILLUSTRATIONS OF PATENTS
ISSUED FROM
THE UNITED STATES PATENT OFFICE
AUGUST 23, 1870.

106,531. W. H. ABEL.
KNITTING MACHINE.

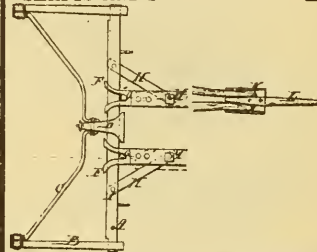


106,536. JOSEPH BARKER. MACHINE
FOR SAND-PAPERING MOLDINGS.

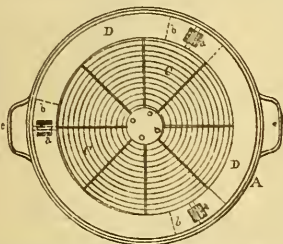


106,541.
HIRAM C. BROWN.
SCYTHES.

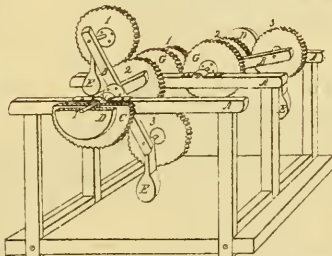
106,542. JOHN G. BURCHFIELD.
SETH W. BROCK.
COMBINATION OF
SHAFTS AND POLE.



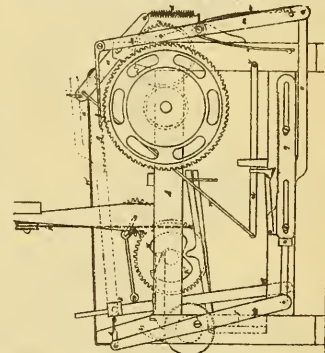
106,532.
SANFORD ADAMS.
COAL-SIFTERS.



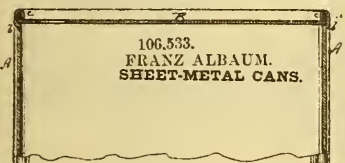
106,537. CHARLES BATCHELLER.
MOTIVE POWER.



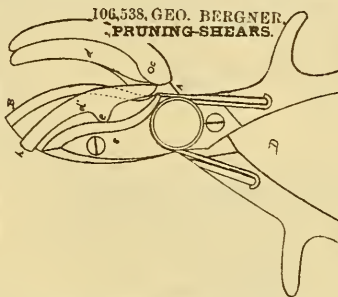
106,543. MICAHAH C. BURLIGH.
LET-OFF MECHANISM FOR LOOMS.



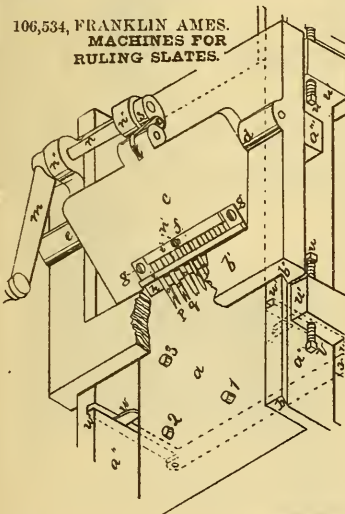
106,533.
FRANZ ALBAUM.
SHEET-METAL CANS.



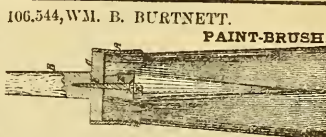
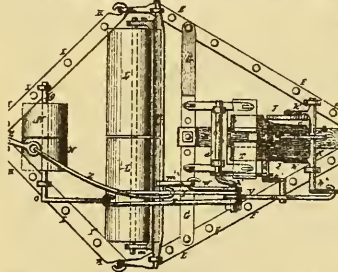
106,538. GEO. BERGNER.
PRUNING-SHEARS.



106,534. FRANKLIN AMES.
MACHINES FOR
RULING SLATES.



106,539. JOHN M. BLANKENBEKER.
COMBINED HARROW AND ROLLER.

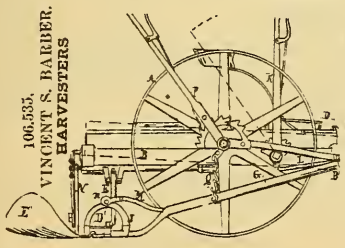


106,544. WM. B. BURNETT.
PAINT-BRUSH.

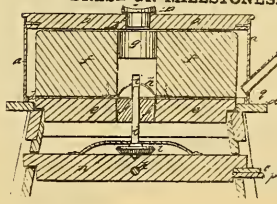


106,545.
WILLIAM B. BURNETT.
FERRULES FOR
PAINT-BRUSHES.

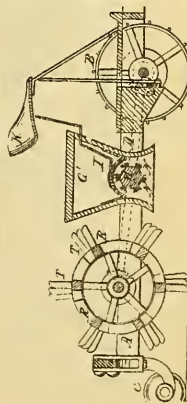
106,535.
VINCENT S. BARBER.
HARVESTERS.

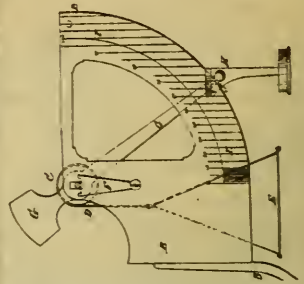
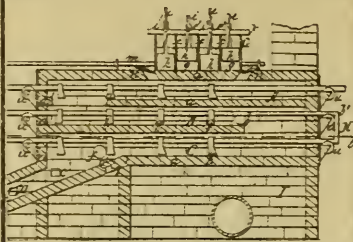
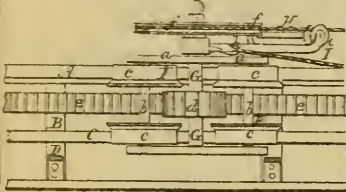
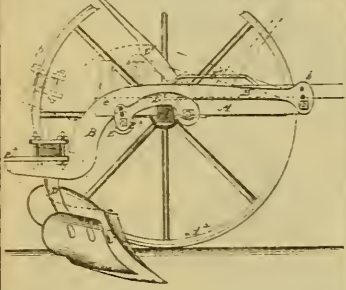
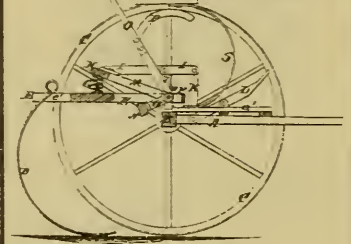
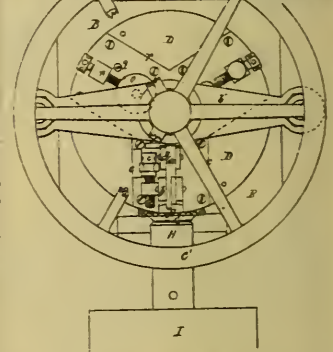
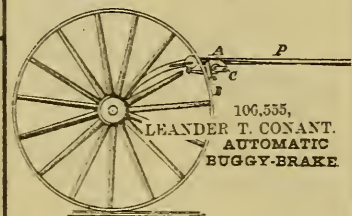
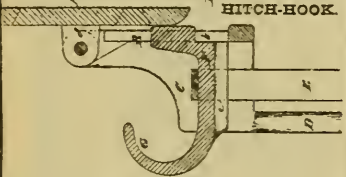
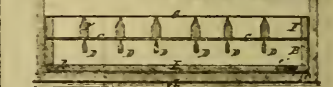
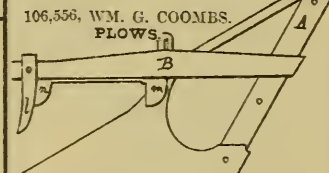
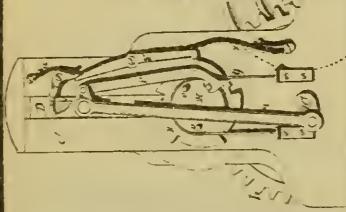
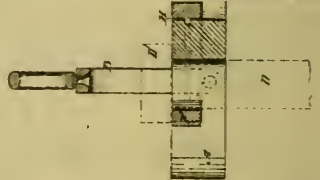
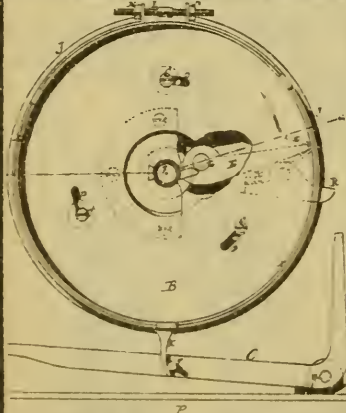
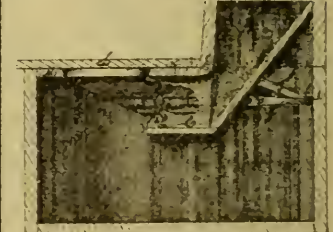
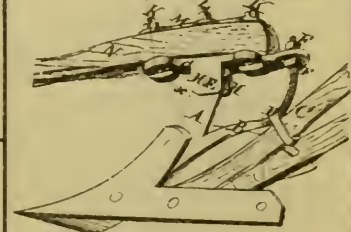


106,540. JOEL S. BRALEY.
JOHN A. SCHMITT.
PHILLIP L. SCHMITT.
METHOD OF PUTTING FACE
-DRESS ON MILLSTONES.

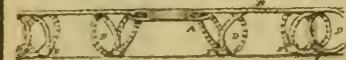
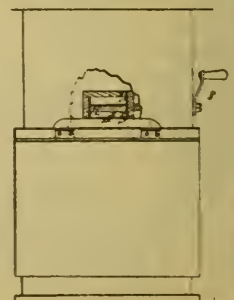


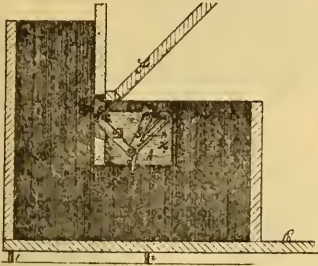
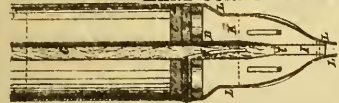
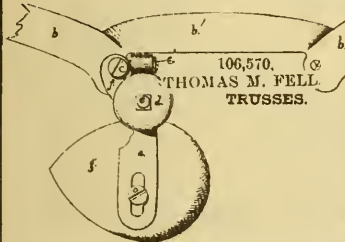
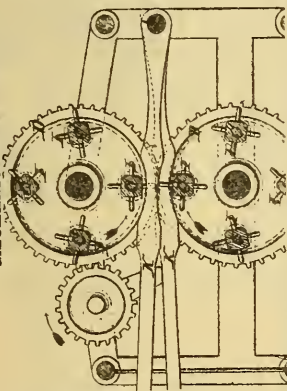
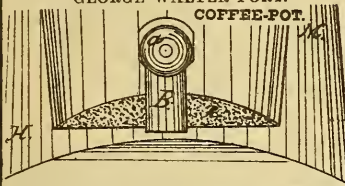
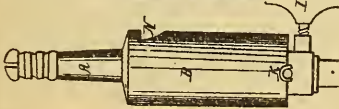
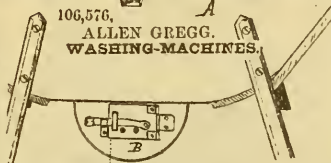
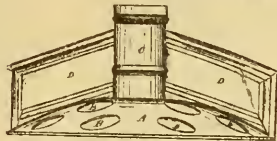
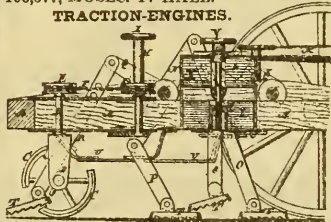
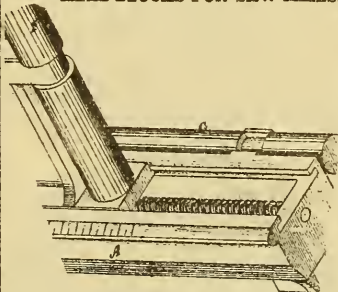
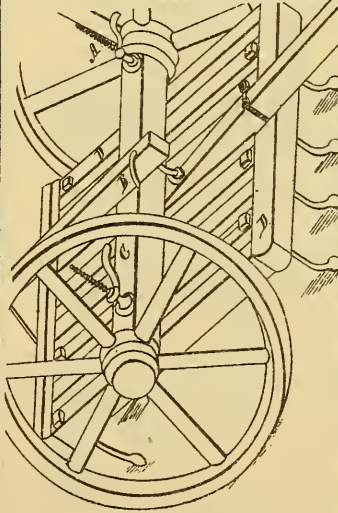
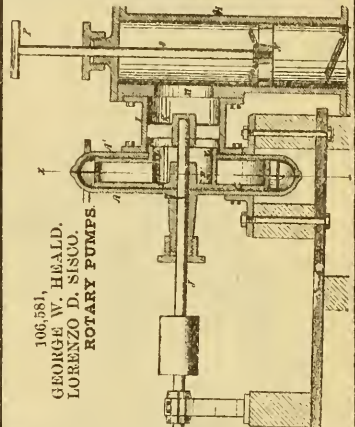
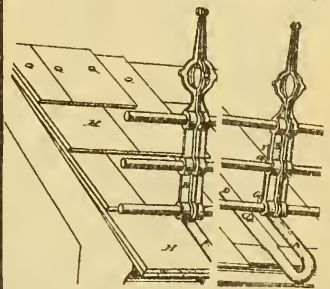
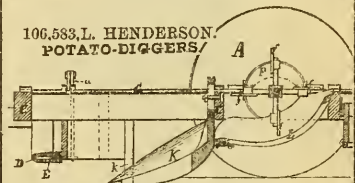
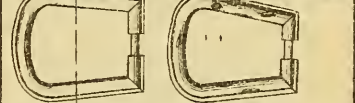
106,546.
A. BUTTON.
SEEDING-MACHINES.



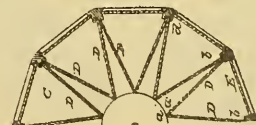
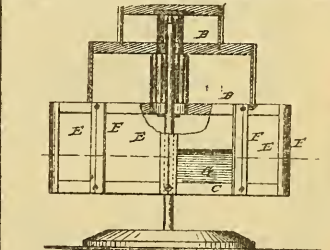
106,547, JOHN B. CALNAN. DEVICE FOR
PROPELLING CANAL-BOATS.106,548, HENRY C. CARR.
WHEEL PLOWS.106,554, JAMES M. COLSON.
HORSE HAY-RAKES.106,561, THOS. BRADFORD DILL.
MACHINES FOR MANUFACTURING
WATCH-CASES.106,549, GEO. W. CHANDLER.
HITCH-HOOK.106,555,
LEANDER T. CONANT.
AUTOMATIC
BUGGY-BRAKE106,562, DAVID B. DIXON.
GRASS-SEED SEPARATORS
FOR MANGERS.106,550,
JOS. CHRISTEN.
TILE-MACHINE.106,556, WM. G. COOMBS.
PLOWS.106,557, JAMES THOMPSON CRFE
BOTTLE-STOPPERS106,563, WM. H. DOWNING.
TUBING-CLAMPS.106,551, WILLIAM T. COLE.
CHUCK FOR HOLDING PIPES AND TUBES
WHILE BEING SCREW-THREADED.106,558,
SAMUEL DARLING.
VENTILATING-WINDOW FOR
RAILROAD-CARS.106,564, JAMES ADDISON DRAKE.
EARTH-CLOSETS.106,559, ROBERT DICKIE.
HUGH KIRKWOOD JOHNSTON.
PLOWS

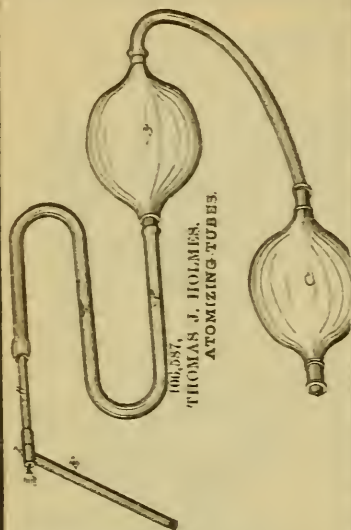
106,552, WM. F. COLLIER. DISH-STAND

106,553, JOHN COLLOM.
ROASTING-FURNACES FOR ORES106,560, GEO. W. DICKINSON.
WEIGHING-SCALES.106,565,
JAMES ADDISON DRAKE.
EARTH-CLOSETS

106,566, JAMES ADDISON DRAKE.
EARTH-CLOSETS.106,567, WM. F. DRAPER.
SPINDLE-BOLSTER.106,568, HUGH DYER.
HAND CORN-PLANTER.106,569, WILLIAM ELMER.
MANUFACTURE OF INFLAMMABLE
GASES FOR FUEL, &c.106,570, THOMAS M. FELL.
TRUSSES.106,571, ALBERT R. FIELD.
HARNES-OPERATING
MECHANISM FOR LOOMS.106,572, WILLIAM FUNK.
GEORGE WALTER PORT.
COFFEE-POT.106,573, LEWIS L. GEBHART, M. D.
MEDICAL COMPOUND.106,574, ERNEST GILLERT.
VAPOR-BURNERS.106,575, WM. H. H. GORTIAM.
BURETT H. WILLIAMS.
CHURN-DASHERS.106,576, ALLEN GREGG.
WASHING-MACHINES.106,577, MOSES P. HALL.
TRACTION-ENGINES.106,578, JACOB W. HANDSHY.
HEAD-BLOCKS FOR SAW-MILLS.106,579, E. D. HATCH.
WHEEL CULTIVATOR.106,580, SAMUEL R. HATHORN.
GUARDS FOR ROOFS.106,581, GEORGE W. HEALD.
LORENZO D. SISOO.
ROTARY PUMPS.106,582, CHAS. HEBEL.
INK OR WRITING-FLUID.106,583, L. HENDERSON.
POTATO-DIGGERS.106,584, HERMON A. HIBBARD.
DRESSING OR TAWING SKINS.106,585, CONSTANTINE HINGHER.
COATING METAL ARTICLES WITH
INDIA RUBBER.

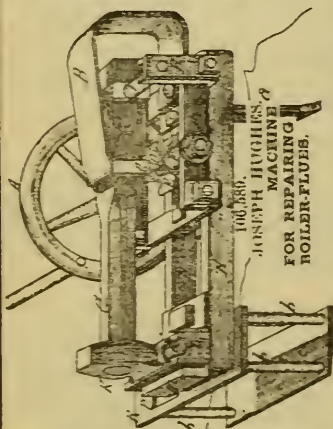
106,586, JOHN A. HOLMES. SHOW-CASE.





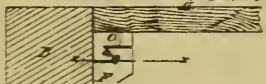
106,587.
THOMAS J. HOLMES.
ATOMIZING TUBES.

106,588. JOS. HUFF.
LIQUID-MEASURE AND FUNNEL.



106,589.
JOSEPH HUGHES.
MACHINE
FOR REPAIRING
PEN-HOLDERS.

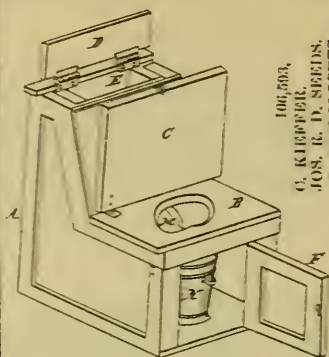
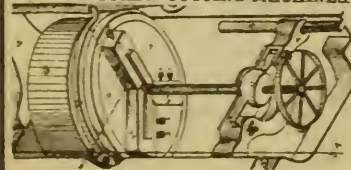
106,590. LEONARD A. JOHNSON.
FURNITURE-FASTENING.



106,591.
NATHANIEL JONES.
LASTS.

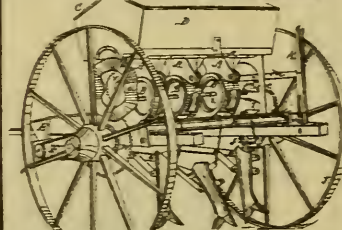


106,592. EDWARD KAYLOR.
SCREW-CUTTING MACHINES.

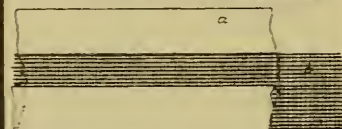


106,593.
C. KRIEGER.
JOS. E. D. SEEDS.
EARTH-CLOSETS.

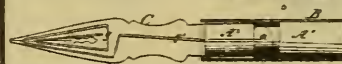
106,594. SETH L. KING.
WILLIAM OGDEN.
GRAIN-DRILLS.



106,595. GEORGE G. LARKIN.
STAY FOR CARRIAGES.



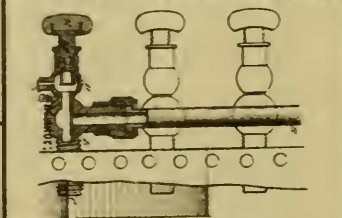
106,596. ROBERT B. LAWRENCE.
PEN-HOLDERS.



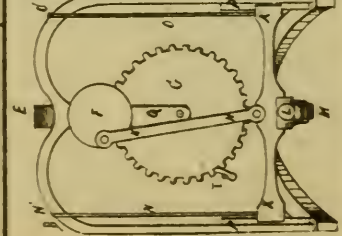
106,597. ROBERT J. MANN. SIEVES.



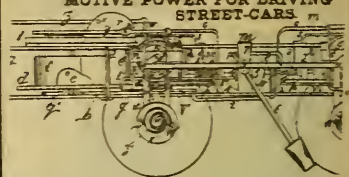
106,598. GIDEON B. MASSEY. LOW-WATER
AND HIGH-PRESSURE ALARM.



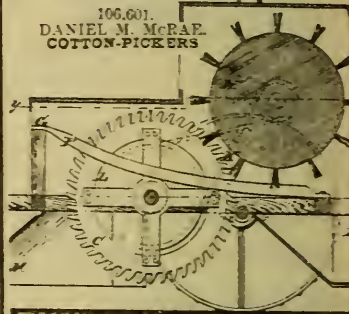
106,599. RILEY T. MCCORMICK.
CHURNS.



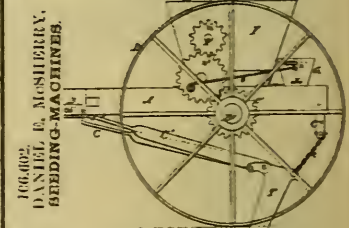
106,600. PATRICK E. McDONNELL.
MOTIVE POWER FOR DRIVING
STREET-CARS.



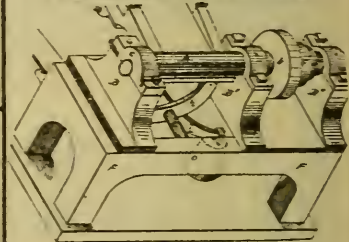
106,601.
DANIEL M. McRAE.
COTTON-PICKERS.



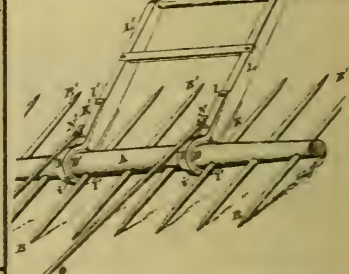
106,602.
DANIEL E. MCSHERRY.
SEEDING-MACHINES.



106,603. REUBEN MILLER. MACHINES
FOR BENDING VOLUTE SPRINGS.



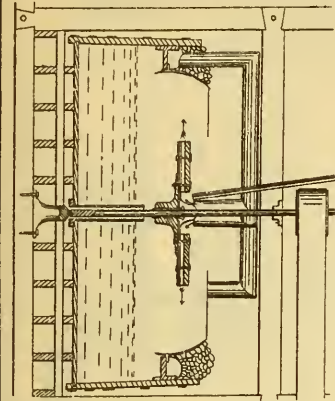
106,604. JOSEPH MILLS.
HORSE HAY-RAKES.



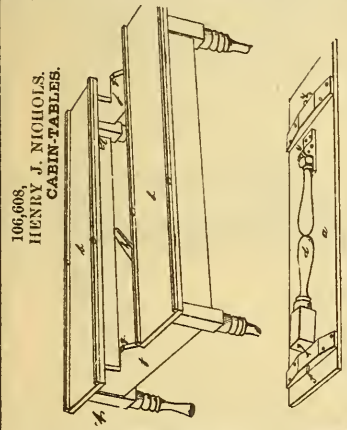
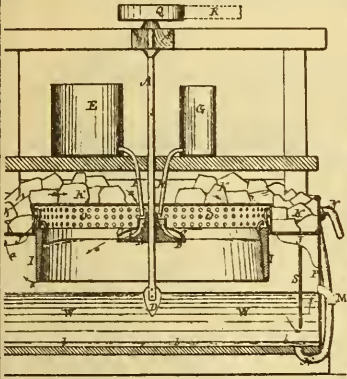
106,605.
WILLIAM MITCHELL.
FRUIT-BASKET.



106,606, GEO. M. MOWBRAY.
APPARATUS FOR THE MANUFACTURE
OF NITRO-GLYCERINE

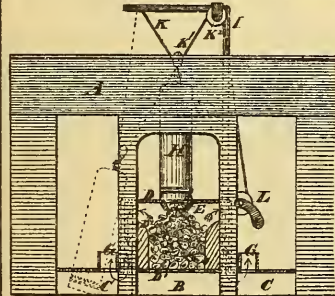


106,607, GEO. M. MOWBRAY.
APPARATUS FOR THE
MANUFACTURE OF NITRO-GLYCERINE
NITRO-BENZOLE, &c.

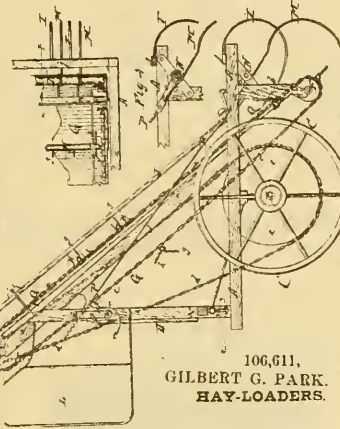
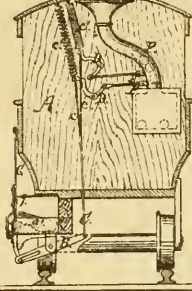


106,608,
HENRY J. NICHOLS.
CABIN-TABLES.

106,609, BENJAMIN NOTT.
BASE-BURNING STOVE.

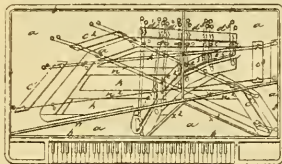


106,610, CHARLES OTTINGER.
AUTOMATIC PASSENGER-REGISTER
FOR VEHICLES.

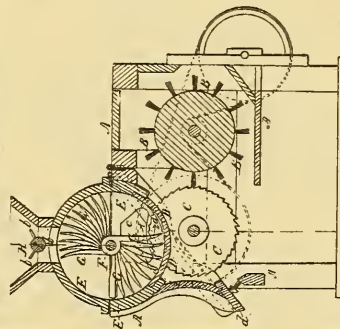


106,611,
GILBERT G. PARK.
HAY-LOADERS.

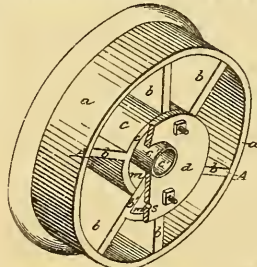
106,612, SAM'L W. PARKER. PIANOS



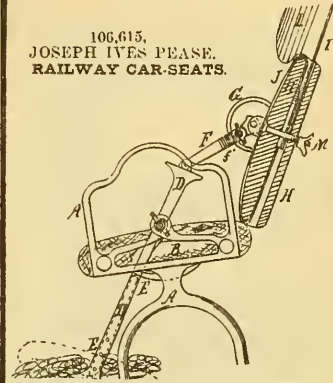
106,613, GEOR. W. PAYNE.
GIN FOR LINTING COTTON.



106,614, S. E. PEART.
LUBRICATOR FOR LOOSE WHEELS.



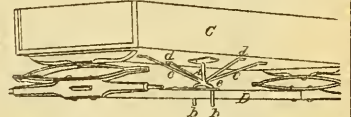
106,615,
JOSEPH IVES PEASE.
RAILWAY CAR-SEATS.



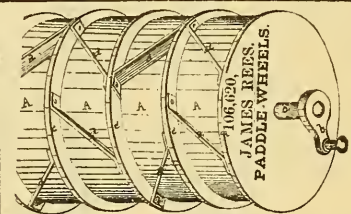
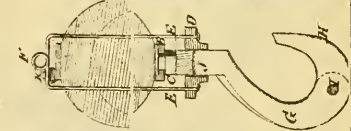
106,616, ROBERT-PINKNEY.
PRODUCTION OF COLORS FOR DYES.
INKS, &c., FROM ANILINE.

106,617, ISAAC L. PLUMER.
MATERIAL FOR PASTE FOR
BOOKBINDERS AND OTHERS.

106,618, NICHOLAS RAMSEYER.
WAGON AND BUGGY-BRACE

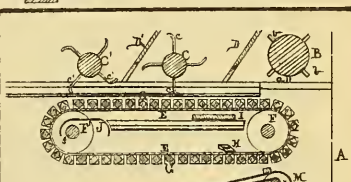


106,619, NATHANIEL M. RAY.
BOAT-DETACHING APPARATUS.

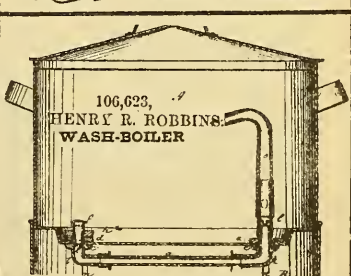


106,620,
JAMES REES.
PADDLE-WHEELS.

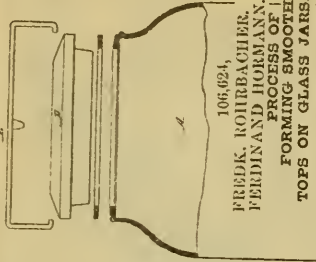
106,621,
ISAAC P. RICHARDS.
SPINDLE-BOLSTER.



106,622,
HENRY RIES.
GRAIN-THRASHER, &c.



106,623,
HENRY R. ROBBINS.
WASH-BOILER

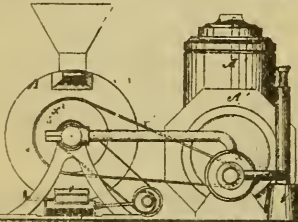


106,624.
FREDK. ROUBACHER,
FERDINAND ROUBACHER,
PROCESSING
FORMING SMOOTH
TOPS ON GLASS JARS.

106,625, ALEXANDER J. SHELDON.
PRESERVING WOOD.

106,626, THOS. SMI.
MANUFACTURE OF FERTILIZERS

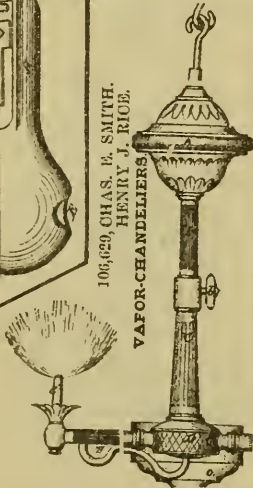
106,627, EVAN SKELLY.
MACHINES FOR DECORTICATING
AND DRYING GRAIN.



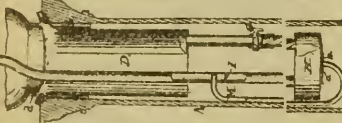
106,628, CHARLES W. SMALL.
REED ORGAN-PIPES.



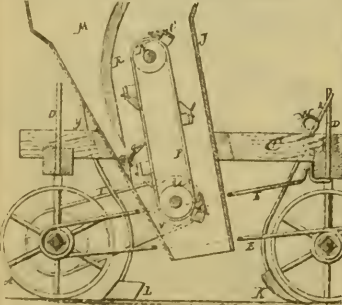
106,629, CHAS. F. SMITH.
HENRY J. RICE.
VAPOR-CHANDELIERS



106,630, CHAS. E. SMITH.
HENRY J. RICE.
VAPOR-BURNING STREET-LAMPS.

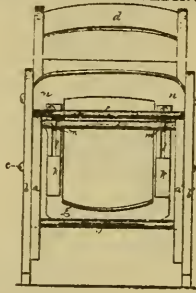


106,631, LEVI SMITH. SEED-PLANTER.

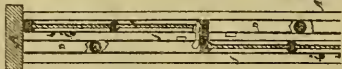


106,632, LEWIS H. SPEAR.
PRESERVING MEAT.

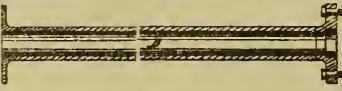
106,633, ALEX. W. STEWART.
FOLDING CHAIR.



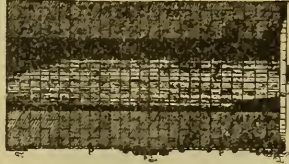
106,634, ADAM W. STINE.
WINDOW-FRAMES.



106,635, FREDERICK STURNEYK.
RAILWAY-CAR AXLES.



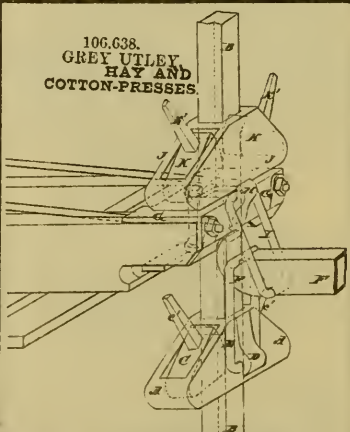
106,636, W. SWINDELL.
STACK FOR PUDDLING, BOILING, AND
OTHER FURNACES.



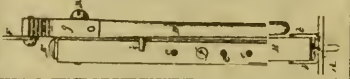
106,637, ALBERT E. TRIPP.
CURTAIN-FIXTURE.



106,638.
GREY UTLEY
HAY AND
COTTON-PRESSES.



106,639, A. M. WATERS. LIFTING-JACKS.



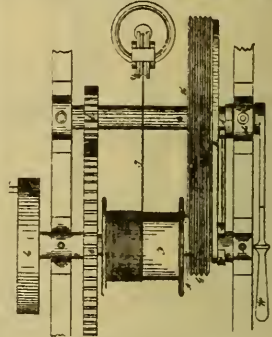
106,640, ISAIAH M. WEST.
FENCES.



106,641, W. H. WILKINSON.
LOGOTYPES.

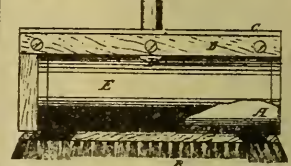


106,642, WILLIAM C. WILLIAMSON.
HOISTING-MACHINE.

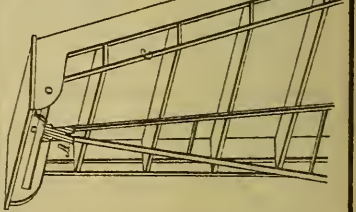


106,643, DAVID S. WOOD.
COMBINATION OF OCHERS FOR PAINT.

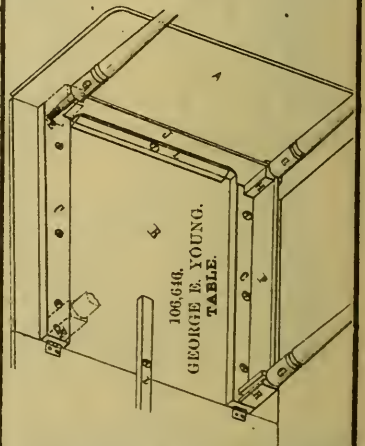
106,644, EUGENE KINCAID WOOD.
COMBINED SCRUBBING-BRUSH, &c.



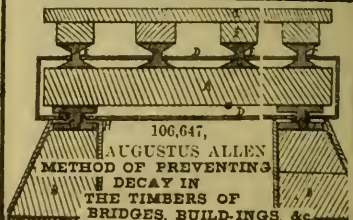
106,645, SAMUEL WRIGHT.
ADJUSTABLE
FRUIT-LADDERS.

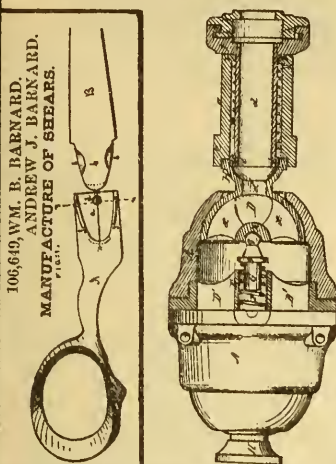


106,646,
GEORGE E. YOUNG.
TABLE.

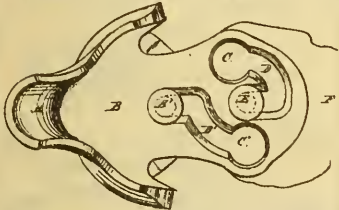
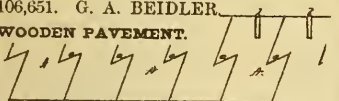
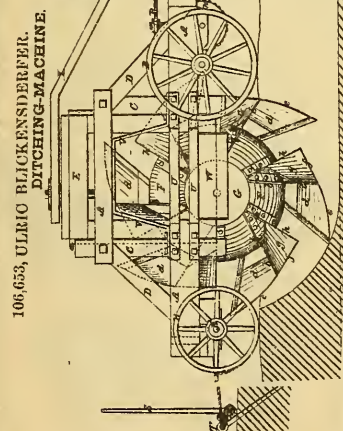
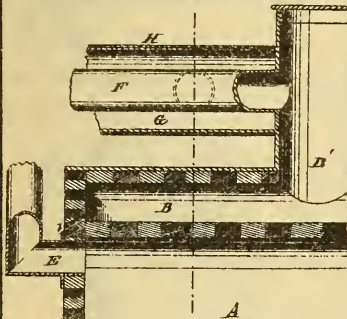
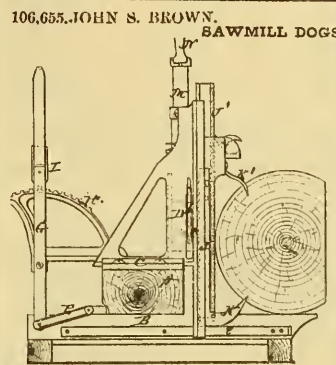
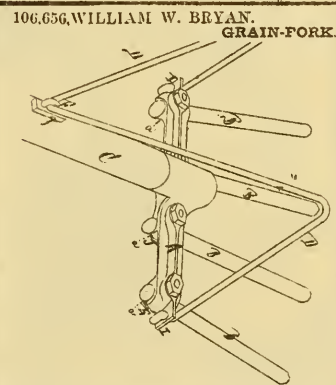
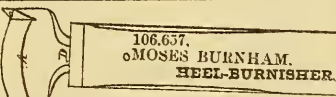
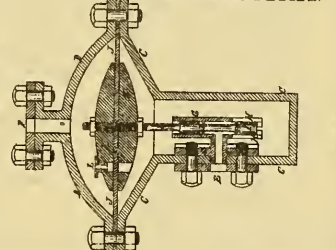
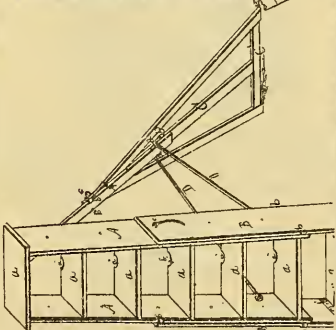


106,647,
AUGUSTUS ALLEN
METHOD OF PREVENTING
DECAY IN
THE TIMBERS OF
BRIDGES, BUILDINGS, &c.

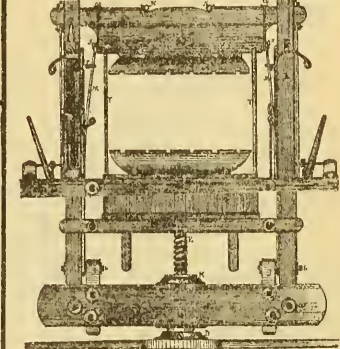


106,648, SAMUEL A. APPOLD. STEAM
COUPLING FOR RAILROAD CARS.

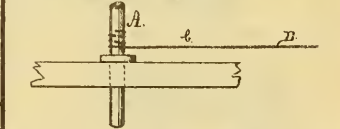
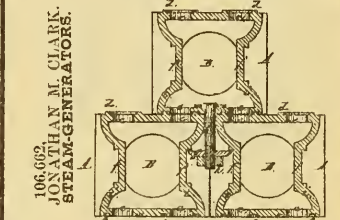
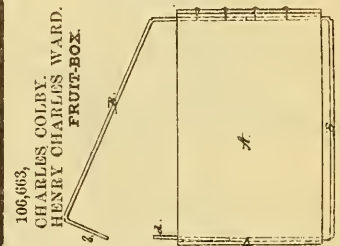
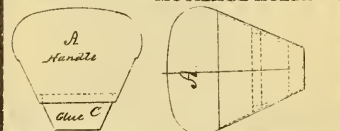
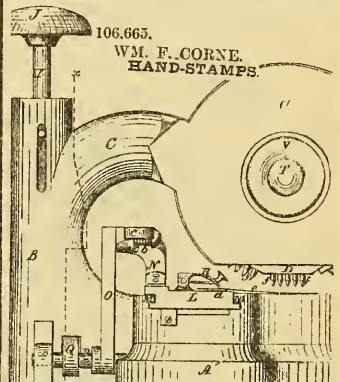
106,650, DANIEL L. BATES. STOVE-LEG.

106,651. G. A. BEIDLER.
WOODEN PAVEMENT.106,652, MICHAEL BER.
JACKET FOR HEATING-PIPES.106,653, ULRIK BLACKENSDORFER.
DITCHING-MACHINE.106,654, ALANSON BROWN.
BREAD-TOASTER.106,655, JOHN S. BROWN.
SAWMILL DOGS.106,656, WILLIAM W. BRYAN.
GRAIN-FORK.106,657, MOSES BURNHAM.
HEEL-BURNISHER.106,658, E. A. CHAMEROY.
APPARATUS FOR GAUGING OR
REGULATING THE FLOW OF
WATER OR OTHER FLUIDS.106,659, HIRAM D. CHANCE.
EXTENSION STEP-LADDER.

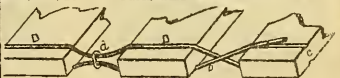
106,660, M. D. CHEEK. BALING-PRESSES.

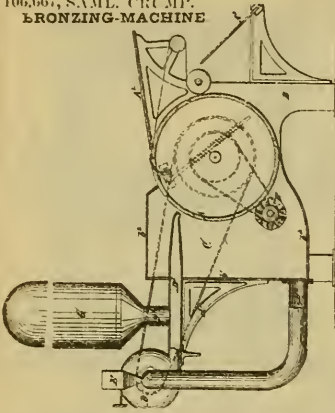
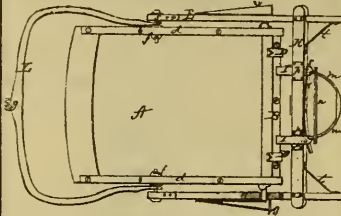


106,661, C. F. CHEW. PIANOS.

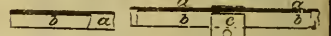
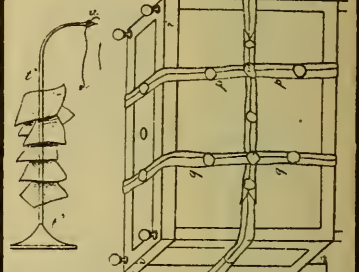
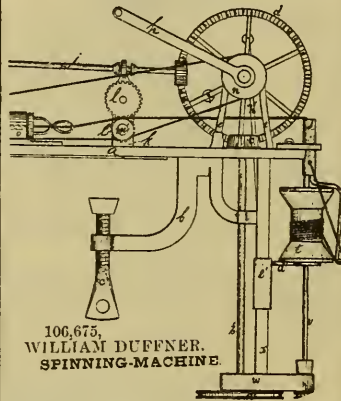
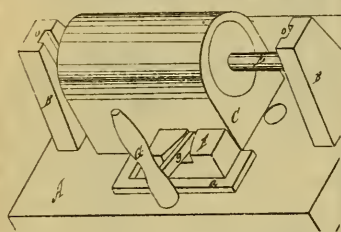
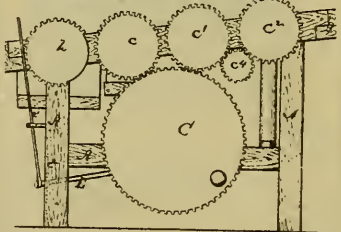
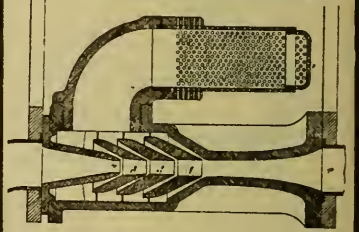
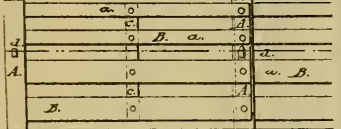
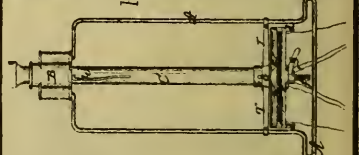
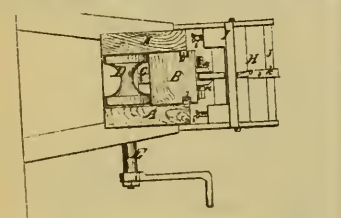
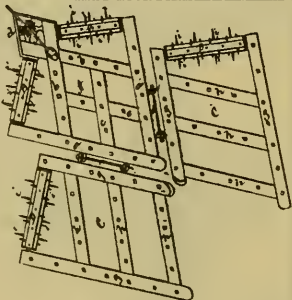
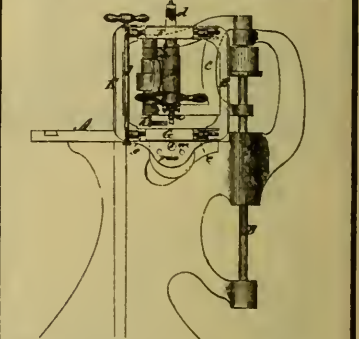
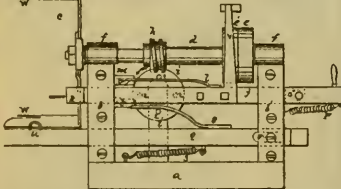
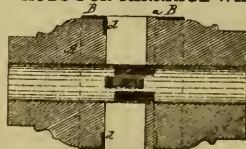
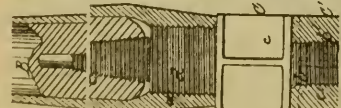
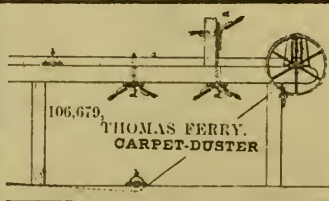
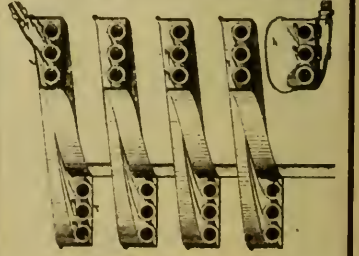
106,662, JONATHAN M. CLARK.
STEAM-GENERATORS.106,663, CHARLES COLBY.
HENRY CHARLES WARD.
FRUIT-BOX.106,664, CHARLES CROZAT CONVERSE
MUCILAGE-HOLDERS.106,665, WM. F. CORNE.
HAND-STAMPS.

106,666, A. W. ORAMER. BED-BOTTOM.

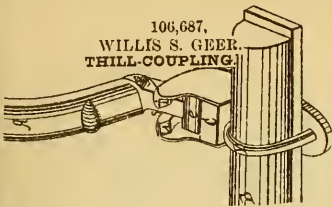


106,667, SAML. CRUMP.
BRONZING-MACHINE106,674, EDWARD M. DOTY,
JOEL L. LITTLE,
PETER A. SCHINDLER.
REVOLVING ROAD-SCRAPERS.106,680, SAMUEL M. FIREY.
HAIR-BRUSH.

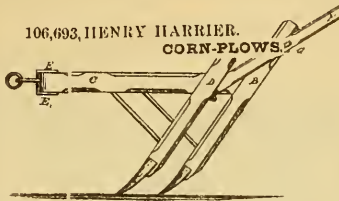
106,681, SAML. FOX. UMBRELLAS.

106,682, G. A. FREBAULT.
BALLOT-BOXES.106,668, DAVID CUMMING, JR.
NUT-LOCK.106,669, FRANCIS CURTIS.
SLIDE-VALVE FOR STEAM-ENGINES106,675,
WILLIAM DUFFNER.
SPINNING-MACHINE106,676, EDWARD J. ELLIS.
MACHINE FOR VARNISHING AND
DRESSING LOOM-HARNESSES.106,683, ALEX. FRIEDMANN.
STEAM-PUMPS.106,670, J. W. CURTIS.
PORTABLE GATE-FENCE.106,684, WILLIAM GAGE.
COMBINED MOP-HEAD AND WRINGER.106,671, WILLIAM H. DAVIS.
MACHINE FOR CUTTING HOOPS.106,677,
G. M. ELLIS HARROWS.106,685, A. S. GEAR.
WOOD-MOLDING MACHINES.106,672, EDMOND W. DEAN.
STOP-MOTION FOR BRAIDING
-MACHINES.106,678, JOHN M. ENNERICH.
HUBS FOR CARRIAGE-WHEELS.106,673, HENRY DE ZAVALA.
PUMP-ROD CONNECTIONS
FOR DEEP WELLS.106,679,
THOMAS FERRY.
CARPET-DUSTER106,686, WILLIAM GEE.
APPARATUS FOR COOLING BEER

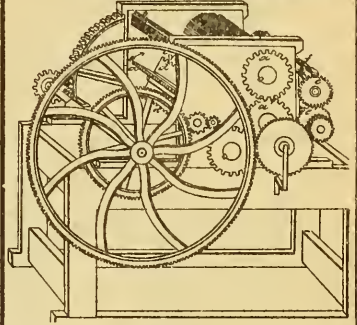
106,687,
WILLIS S. GREER.
THILL-COUPLING.



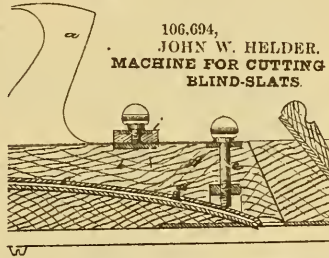
106,693, HENRY HARRIER.
CORN-PLOWS.



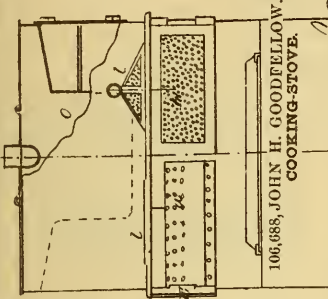
106,700, E. LEFRANC.
J. NAGOUA.
MACHINE FOR TREATING RAMIE
AND OTHER TEXTILE PLANTS.



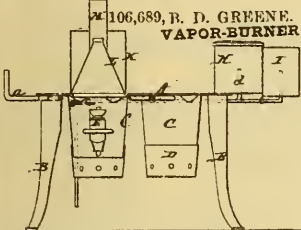
106,694,
JOHN W. HELDER.
MACHINE FOR CUTTING
BLIND-SLATS.



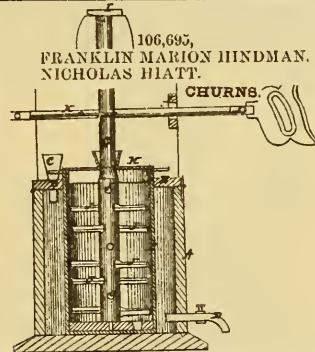
106,688, JOHN H. GODDELOW.
COOKING-STOVE.



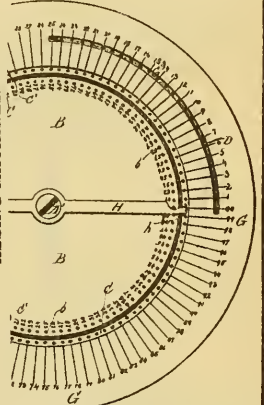
106,689, R. D. GREENE.
VAPOR-BURNER.



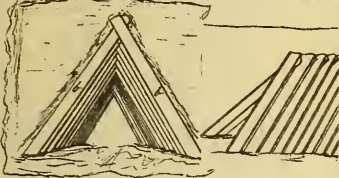
106,695,
FRANKLIN MARION HINDMAN.
NICHOLAS HIATT.
CHURNS.



106,701,
FRANK T. DELICH.
ADDING-MACHINES.



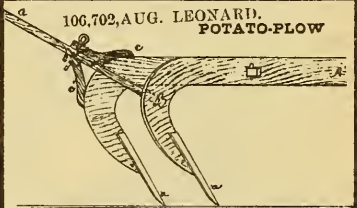
106,690, TOBIAS K. GRUBE.
CONSTRUCTION OF DITCHES



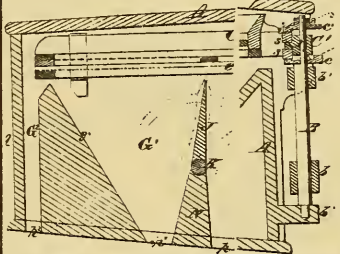
106,696, G. C. HINMAN. BLOTTER-PADS



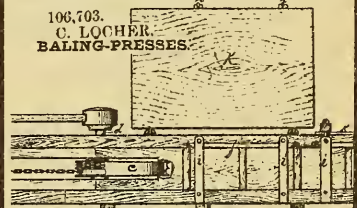
106,702, AUG. LEONARD.
POTATO-PLOW



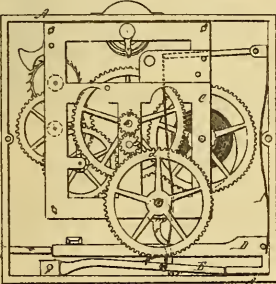
106,697, JAMES H. JONES.
FLOUR-BOLTS.



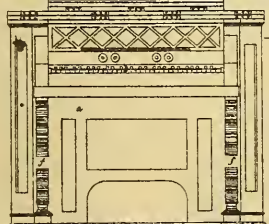
106,703,
C. LOCHER.
BALING-PRESSES.



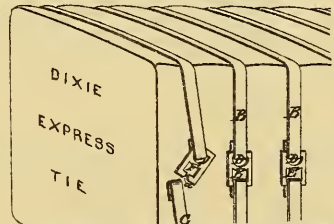
106,691, L. A. HAINES.
TIME-LOCKS.



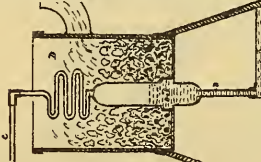
106,692, EMMONS HAMLIN.
PARLOR-ORGANS.



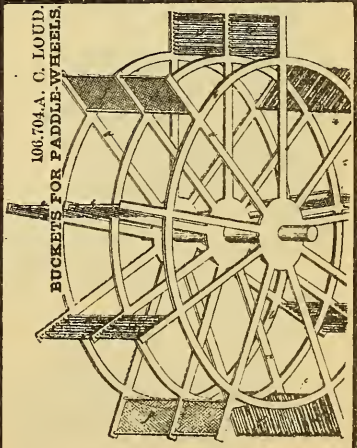
106,698, WM. A. JORDAN. BALE-TIE

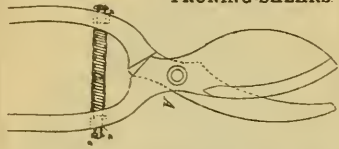
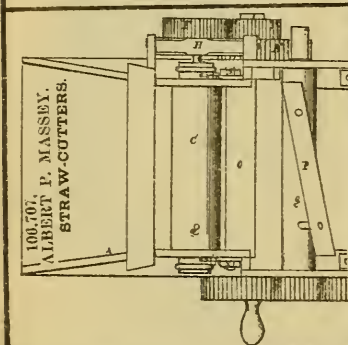
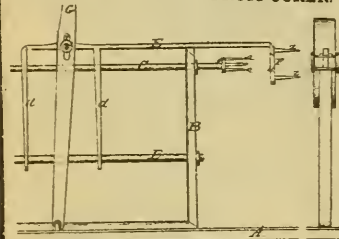


106,699, JOSHUA KIDD. MANUFACTURE
OF GAS FOR ILLUMINATION. &c.

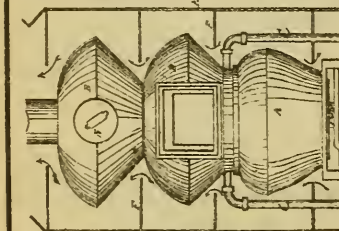
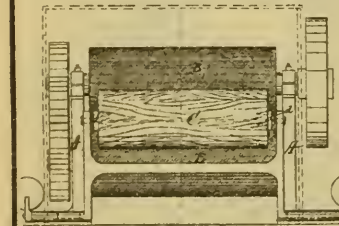
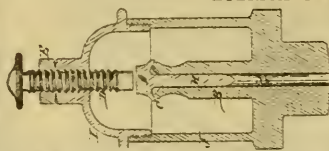
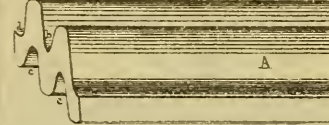
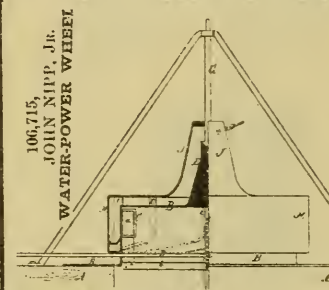
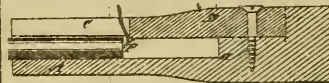
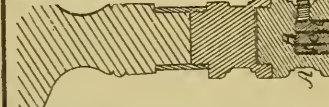
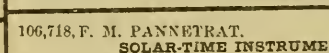
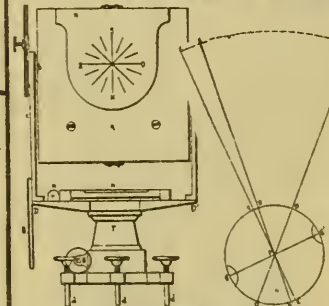
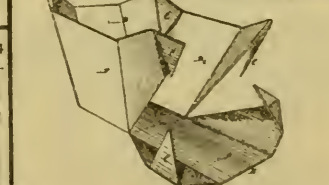
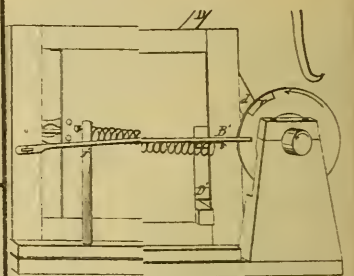
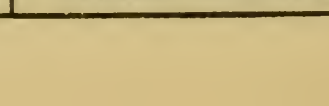
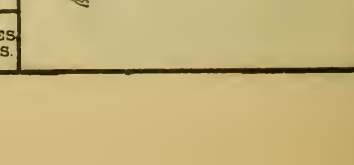
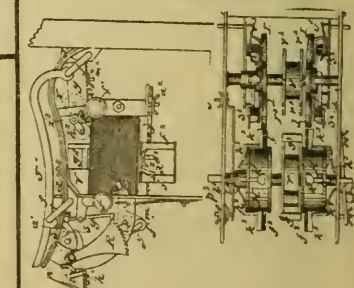
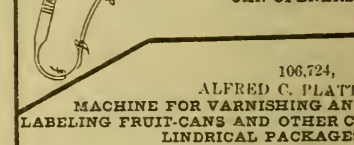
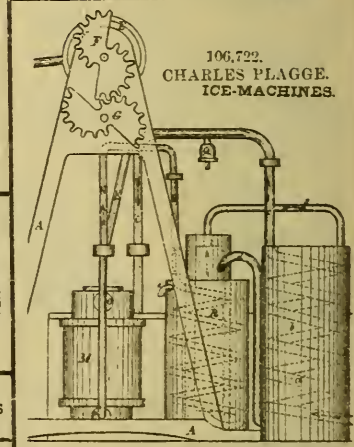
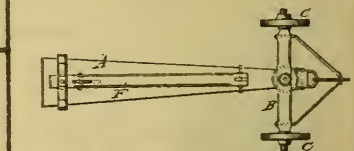
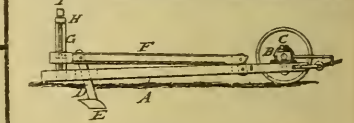


106,704, A. C. LIOUD.
BUCKETS FOR PADDLE-WHEELS.

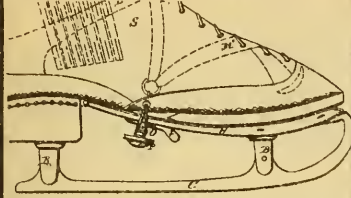
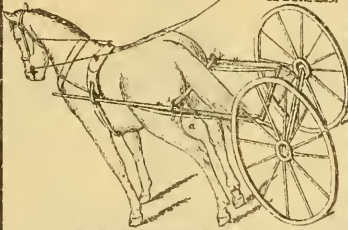
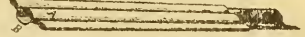
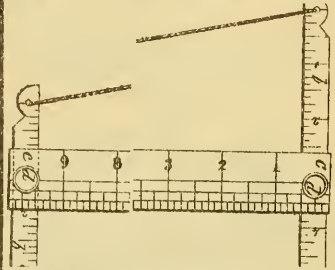
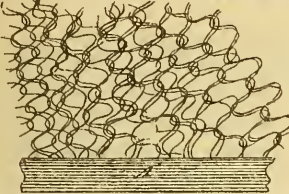
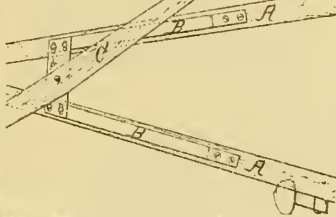
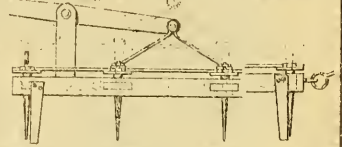
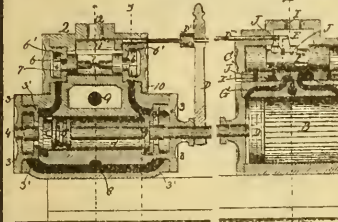


106,705, ENOCH J. MARSTERS.
PRUNING-SHEARS106,706, ENOCH J. MARSTERS.
FRUIT-CORER.

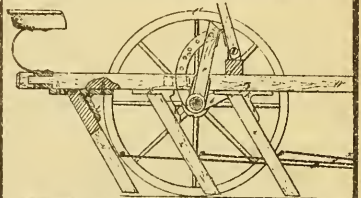
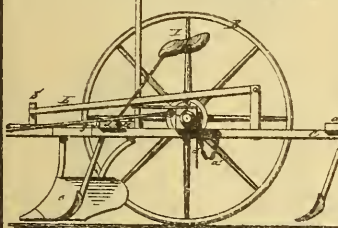
106,708, JOHN MCCOY. HOT-AIR FURNACE

106,709, JAMES McMILLAN.
DRAIN-TUBES.106,710, HARRISON B. MEECH.
MANUFACTURE OF PAPER-PULP
FROM WOOD.106,711, HARRISON B. MEECH. REDUCING
AND BLEACHING PAPER STOCK.106,712, JAMES MEEHAN.
LUBRICATORS106,713, R. MONTGOMERY.
FORM OF INGOTS FOR CORRUGATED
METAL BEAMS.106,714, CHARLES MOST.
FIRE-CRACKER HOLDERS.106,716, M. P. NORTON
HAND STAMP.106,717, JAMES O'FRIEL.
TREATING BITUMINOUS SUBSTANCES
FOR PAVEMENTS, &c.106,718, F. M. PANNETRAT.
SOLAR-TIME INSTRUMENT.106,719, SANFORD D. PAYNE.
FRUIT-BASKET106,720, NOAH C. PERRY. MACHINES
FOR BENDING WIRE SCREW-EYES.106,721, ALFRED PETERSON.
MOLE-DITCHING MACHINE.

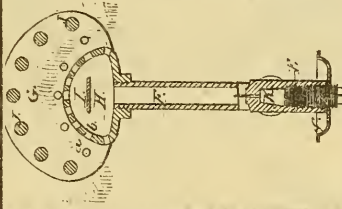
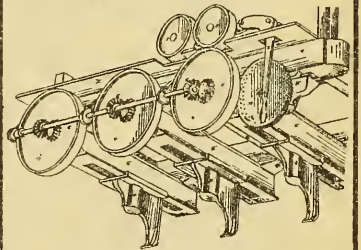
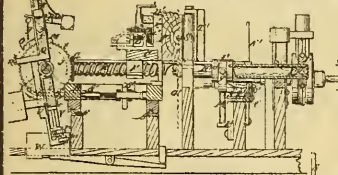
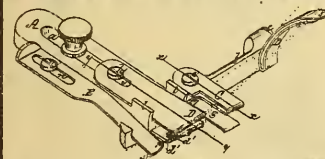
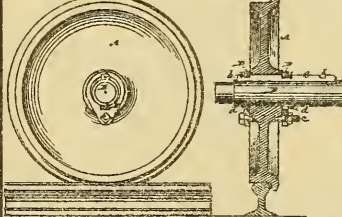
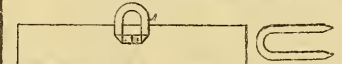
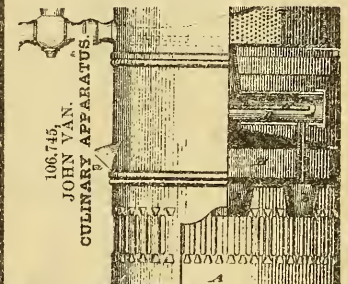
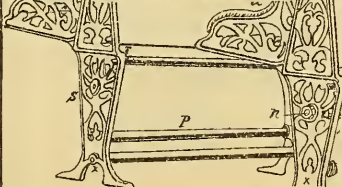
106,723, ALFRED C. PLATT. SKATES.

106,732, WILLIAM F. SCHATZ.
BRECHING ATTACHMENT FOR
HORSES.106,740, ISAAC B. STAPLES.
STOCK OR BLANK FOR BRACELETS.106,741, SAMUEL T. TAYLOR. GAUGE
FOR CUTTING BIAS PIECES OF CLOTH106,726, GEO. RICHARDSON.
BED-BOTTOM106,733, NELSON S. SHIELDS.
CULTIVATORS.106,742, CORNELIUS THAYER.
LEMAN L. THOMAS.
HARROWS.106,727, LOUIS C. RODIER.
PUMPING-ENGINE

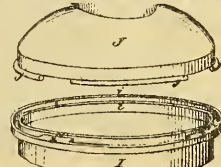
106,734, A. B. SMALL. METALLIC SEALS.

106,735, DWIGHT L. SMITH.
POCKET SUN-DIALS.106,743, S. C. THORNTON.
COMBINED
GANG-FLOW AND CULTIVATOR106,728,
JOHN ROOT.
CULTIVATORS

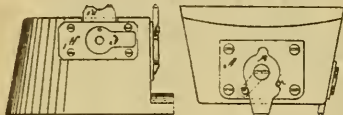
106,736, W. H. SMITH. VAPOR-BURNERS.

106,744, WM. B. TRUNICK.
HEAD-BLOCKS OF SAW-MILLS.106,729,
TITUS H. RUSSELL.
CIRCULAR-SAW MILLS106,730, JOSEPH W. SAWYER. BINDING
ATTACHMENT FOR SEWING-MACHINE.106,737, W. B. SNOW. MEANS FOR
ADJUSTING CAR-WHEELS TO
DIFFERENT GAUGES.106,738, D. M. SOMERS.
SUSPENSION RINGS.106,739,
W. HORACE SOPER.
RAILWAY-CAR SEATS.106,745,
JOHN VAN.
CULINARY APPARATUS.106,731, HENRY SAYLER.
FIFTH-WHEELS
FOR CARRIAGES.

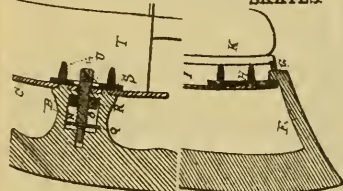
106,746, JOHN VAN. HOT-AIR FURNACE.



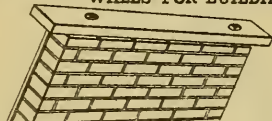
106,747, JOHN L. WAGER.
ABRAM L. SCUDDER.
CALK FOR BOOTS AND SHOES.



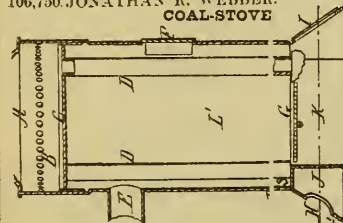
106,748, EDWARD P. WAGGONER.
SKATES.



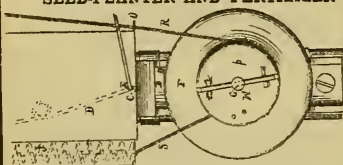
106,749, JAMES WEATHERS.
WALLS FOR BUILDINGS.



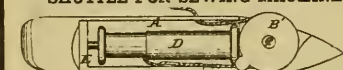
106,750, JONATHAN R. WEBBER.
COAL-STOVE.



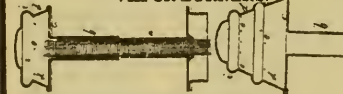
106,751, DEXTER P. WEBSTER.
SEED-PLANTER AND FERTILIZER.



106,752, W. W. WELLS.
SHUTTLE FOR SEWING-MACHINE.



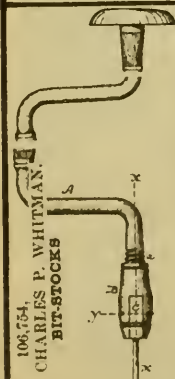
106,753, JOSEPH WHITE.
VAPOR-BURNERS.



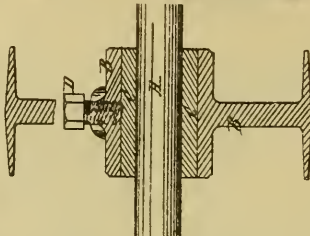
106,755, S. H. WHITMORE.
SHAFT-COUPLING.



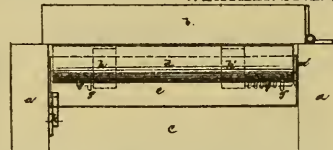
106,754, CHARLES P. WHITMAN.
BIT-STOCKS.



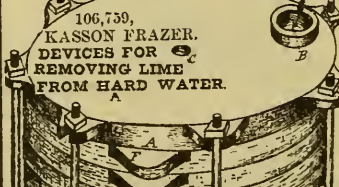
106,756, SETH H. WHITMORE.
SHAFT-COUPLING.



106,757, HENRY W. WICKER.
WEATHER-STRIPS.

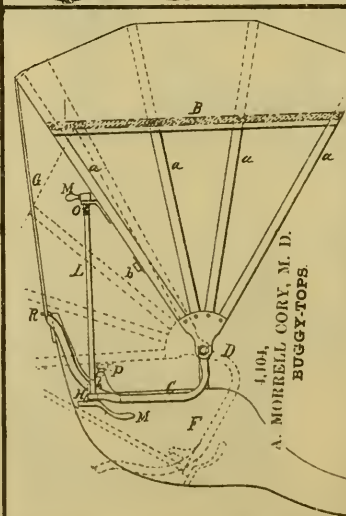
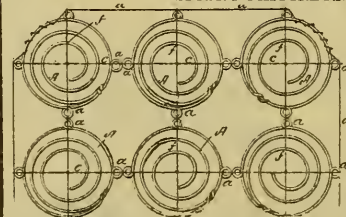


106,758, MILTON WENGER.
COMBINED FORK AND BAND-CUTTER.



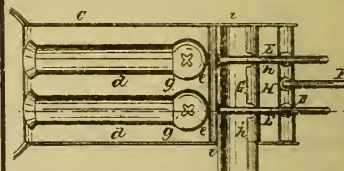
106,759, KASSON FRAZER.
DEVICES FOR
REMOVING LIME
FROM HARD WATER.

4,103, EDWIN L. BUSHNELL.
SPRING MATTRESS.

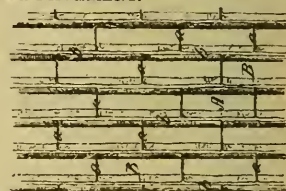


4,104, A. MORRELL CORY, M. D.
BUGGY-TOPS.

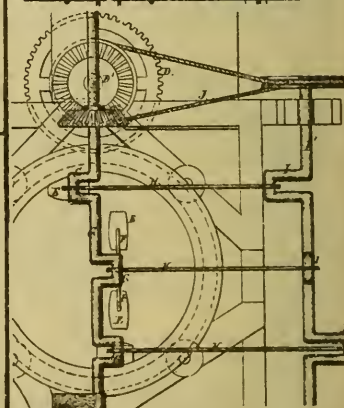
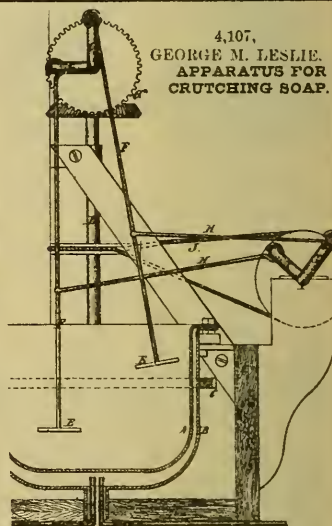
4,105, GEO. GEER. CHERRY-STONER.



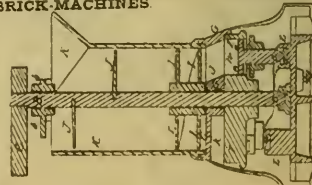
4,106, C. GUIDET.
STONE PAVEMENT.



4,107, GEORGE M. LESLIE.
APPARATUS FOR
CRUTCHING SOAP.



4,108, U. S. BRICK MACHINE COMPANY
BRICK-MACHINES.



ILLUSTRATIONS OF PATENTS

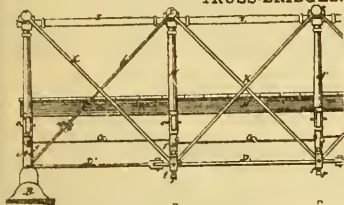
ISSUED FROM

THE UNITED STATES PATENT OFFICE

AUGUST 30, 1870.

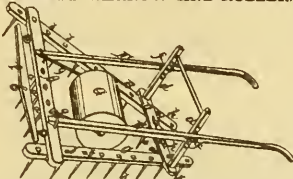
106,760, JOHN S. ADAMS.

TRUSS-BRIDGES.



106,765, TIMOTHY BAILEY.

COMBINED HARROW AND ROLLER.



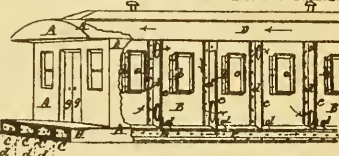
106,770, JOHN E. BAUM.

CURTAIN-CORD TIGHTENER.

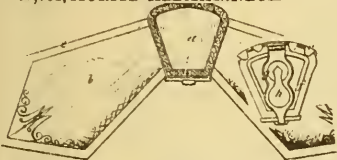


106,771, GEO. C. BESTOR.

FIRE-PROOF RAILWAY-CARS.

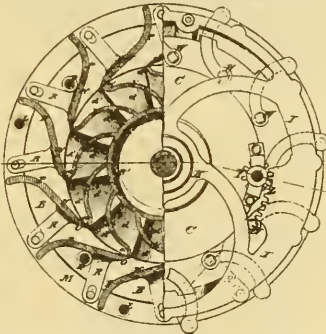


106,761, MORITZ ALTMAN. NECK-TIES.



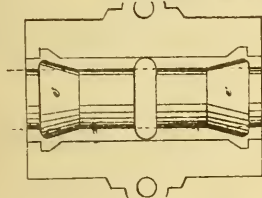
106,766, VINCENT M. BAKER.

WATER-WHEELS.



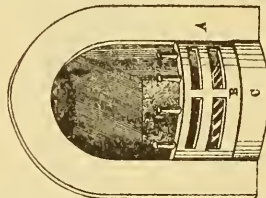
106,762, CHARLES ANDREWS.

LUBRICATING-BOXES.



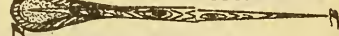
106,772, FRANK S. RISSELL.

FIRE-PLACE GRATE.



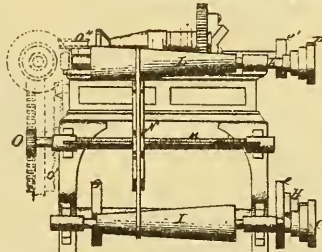
106,773, WILLIAM E. BLAKE.

TOOTH-PICKS.



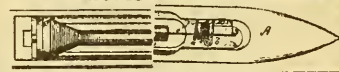
106,767, FREDERICK BALDWIN.

WOOD-TURNING LATHES.



106,774, THEODOR BOSSHARD.

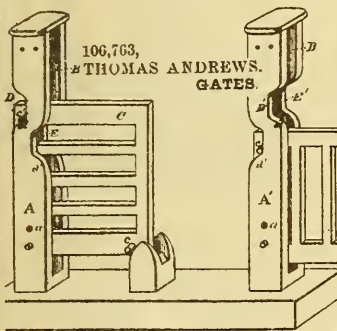
SHUTTLE-STOPPING DEVICE.



106,763,

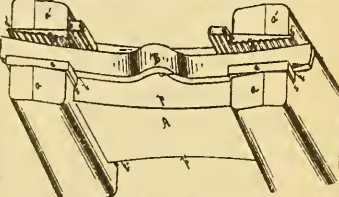
THOMAS ANDREWS.

GATES.



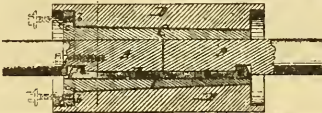
106,775, WILLIAM BOWDEN.

MACHINE FOR UPSETTING TIRES.



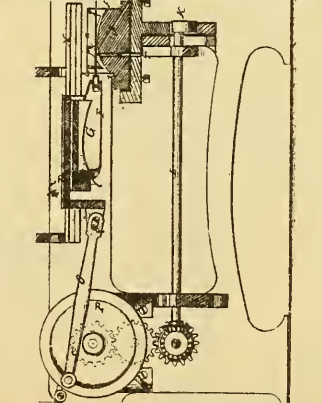
106,768, MARSHALL L. BASSETT.

SHAFT-COUPLING.



106,769, ISAAC GALE BATCHELLER.

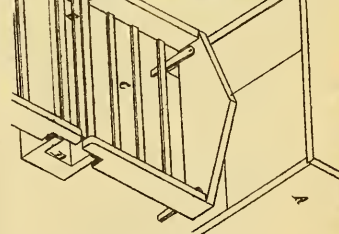
MACHINES FOR BENDING FORKS.



106,776.

SANFORD S. BURR.

WARDROBE-BEDSTEAD.



106,777, HENRY L. BUTLER.

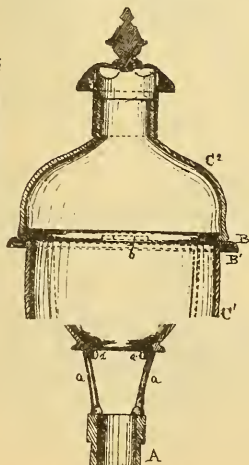
THOS. A. CHRISTIE.

STEAM-ENGINE.

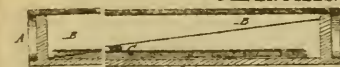


106,764, THEO. P. AUSTIN.

STREET-LAMPS.



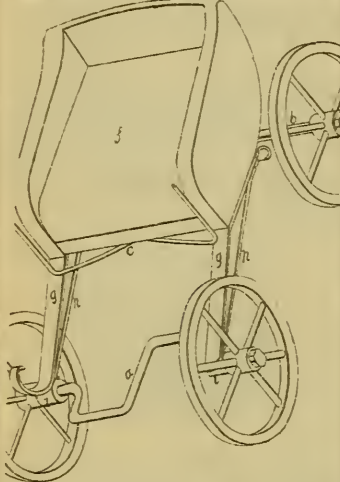
106,778, JOHN CASH.
JOSEPH CASH, JUNR.
PAPER-FILES.



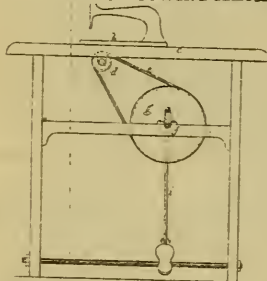
106,779, JACOB CAYLOR.
SPADES AND SHOVELS.



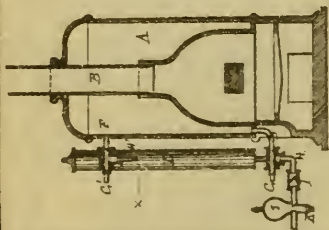
106,780, JOHN C. CLIME. VELOCIPEDE.



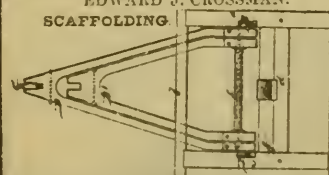
106,781, JOHN COCHRANE, JR.
DRIVING MECHANISM
FOR SEWING-MACHINES.



106,782, HENRY V. COLEMAN.
CIRCULATING WATER-HEATERS
FOR STEAM FIRE-ENGINES.

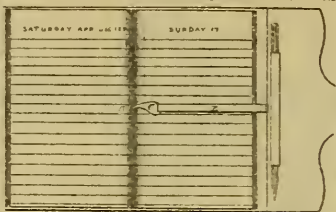


106,783, JAMES V. COOK.
EDWARD J. CROSSMAN.
SCAFFOLDING.

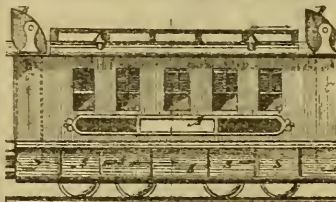


106,784, G. F. CORNELIUS.
MANUFACTURE OF PAINT AND
VARNISH.

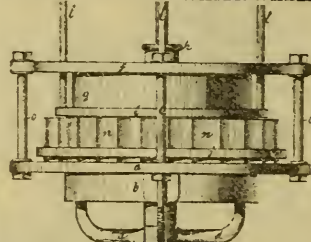
106,785, EDMUND COTTELE.
BOOK-MARKERS.



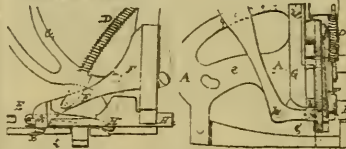
106,786, JOHN PENN CURRY. RAILROAD-
CAR DUSTER AND VENTILATOR.



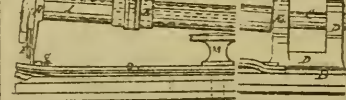
106,787, DWIGHT CUSHMAN.
WATER-WHEELS.



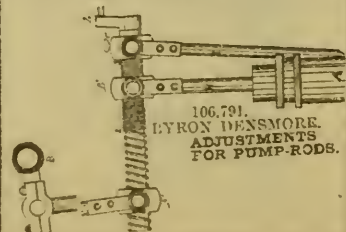
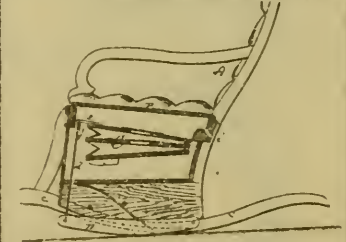
106,788, J. A. DAVIS.
GATHERING DEVICE FOR SEWING
MACHINES.



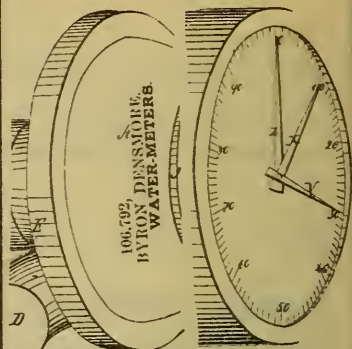
106,789, JOB A. DAVIS.
CREASING ATTACHMENT FOR
SEWING-MACHINE.



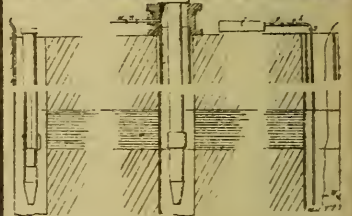
106,790, CLAYTON DENN.
MUSICAL ROCKING-CHAIR.



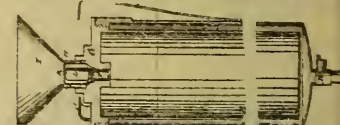
106,791.
BYRON DENSMORE.
ADJUSTMENTS
FOR PUMP-RODS.



106,792, BYRON DENSMORE.
WATER-METERS.



106,794, JAMES DICKEY.
TORPEDOES FOR OIL-WELLS.



106,795, MOSES W. DILLINGHAM.
PENCIL-SHARPENERS.



106,796, GEORGE L. DULANEY.
TENSION
DEVICE FOR SEWING-MACHINE.



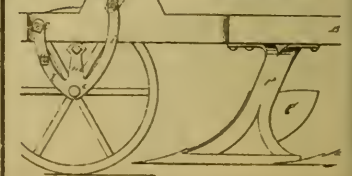
106,797, WARREN W. DUTCHER.
ROLLER-TEMPLES FOR LOOMS.



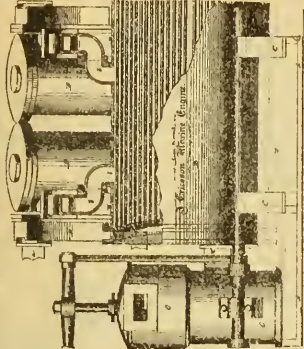
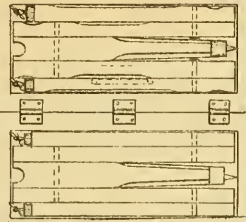
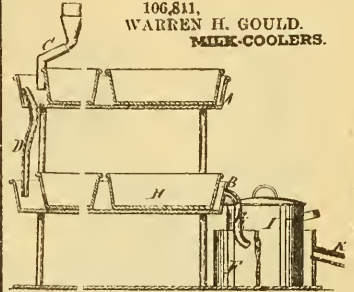
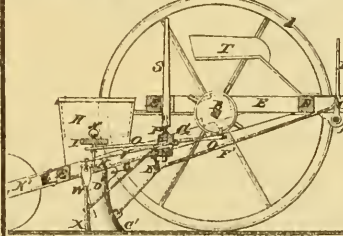
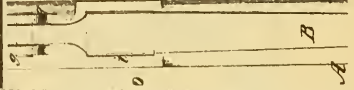
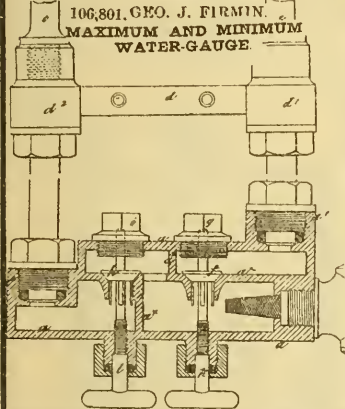
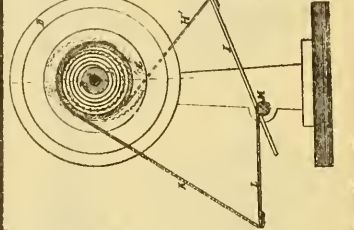
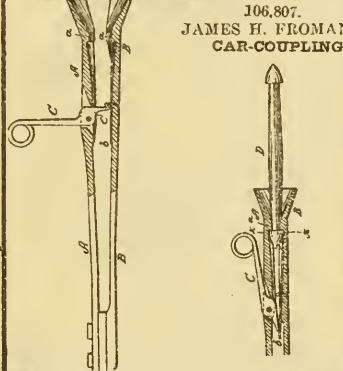
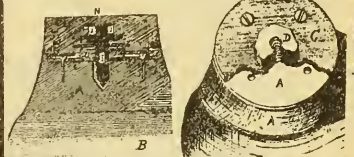
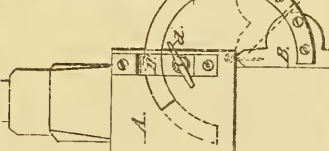
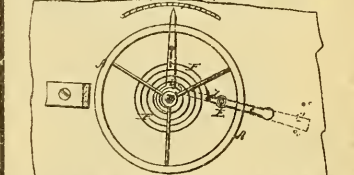
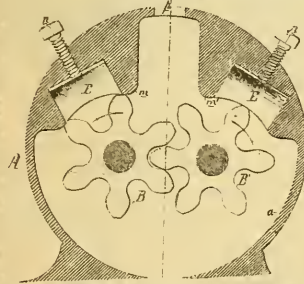
106,798,
CHARLES EGNOR.
TRAP FOR
LOWERING ICE.



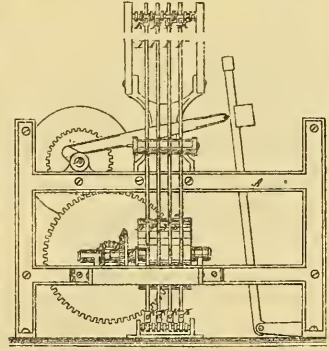
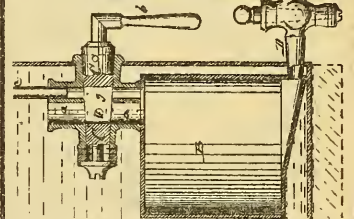
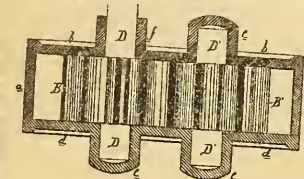
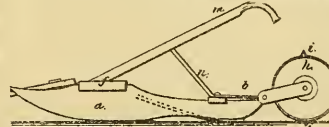
106,799,
ABRAM ELLISON.
GANG-PLOWS.

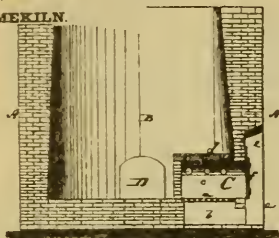
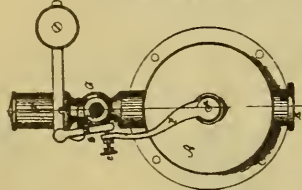
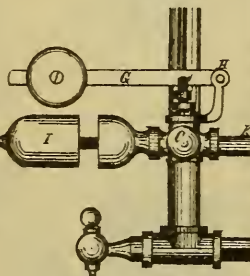
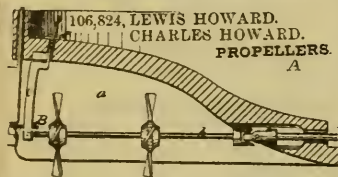


106,800, J. ERICSSON, MARINE ENGINES.

106,805, CHARLES A. FRENCH.
FOLDING SEAT.106,811,
WARREN H. GOULD.
MILK-COOLERS.106,806, WILLIAM E. FRICKE.
COMBINED PLANTER AND SEEDER.106,812, DR. JOHN A. GRISWOLD.
FIRE-ESCAPES.106,801, GEO. J. FIRMIN.
MAXIMUM AND MINIMUM
WATER-GAUGE.106,813, CHARLES M. GUESS.
TREADLE-MOTION.106,807,
JAMES H. FROMAN.
CAR-COUPLING.106,814, H. F. HARRIS,
G. P. PINNEY.
BOOT AND SHOE-HEELS.106,808, MICHAEL GARLAND.
PLANE-GUIDE.106,815, WILLIAM HART.
ESCAPMENTS FOR WATCHES, &c.106,803, HENRY G. FISKE.
MACHINE FOR FORMING
SHEET-METAL MOLDINGS.

106,809, LUCIEN M. GILBERT LOOM.

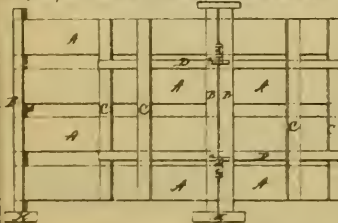
106,816, FRANCIS C. HEISER.
MEASURING FAUCETS.106,804, GEORGE STORES FOLLANSBEE.
ROTARY STEAM-ENGINE OR PUMP.106,810, OZIAS W. GOSLEE.
TOBACCO-RIDGER.106,817,
JOHN R. HILLER.
CARRIAGES.

106,818. D. HILLS.
LIME-KILN.106,819. CONSTANTINE HINGHER.
COVERING METAL ARTICLES
WITH INDIA RUBBER.106,820. GEO. M. HOPKINS.
JOHN A. STRAIGHT.
LOW-WATER INDICATOR.106,821. GEO. M. HOPKINS.
JOHN A. STRAIGHT.
HIGH-PRESSURE INDICATOR.106,822. HIRAM HOPKINS.
BOOM-CROTCH SUPPORTERS.106,823. JAMES S. HOWARD.
COLORING GUN-BARRELS.

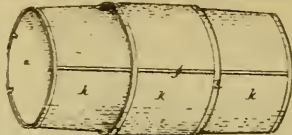
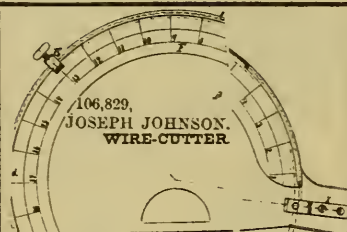
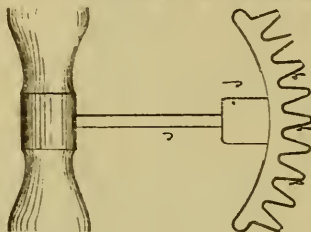
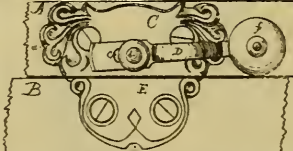
106,825. SEYMOUR HUGHES. ROOFING.



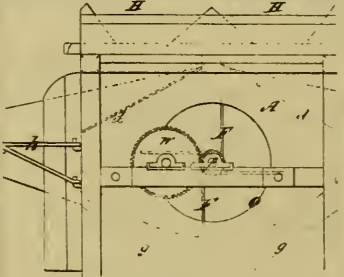
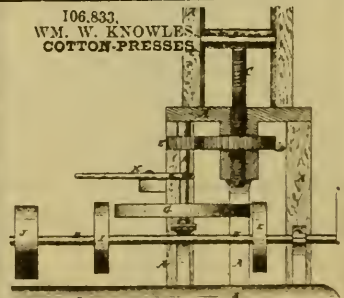
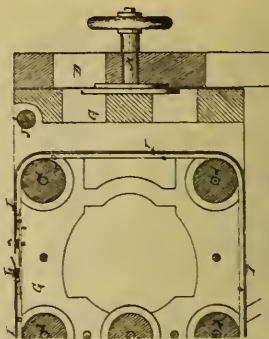
106,826. ELI HUNT. PORTABLE FENCE.



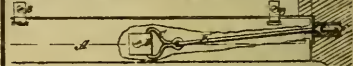
106,827. GEORGE M. HUNTLY. BARREL.

106,828. CHARLES HYATT.
FLUTING AND SAD-IRON.106,829.
JOSEPH JOHNSON.
WIRE-CUTTER.106,830. FREDK. W. JUDD. LOCKS
GEORGE M. HUBBARD.
FOR THE MEETING RAIL OF SASHES.

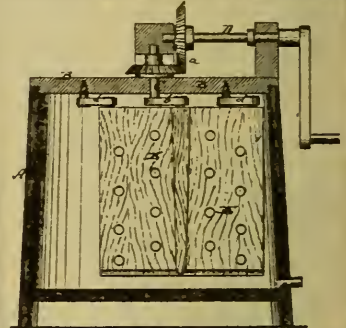
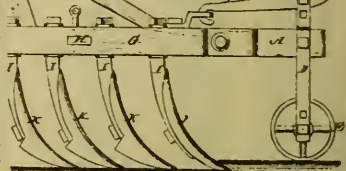
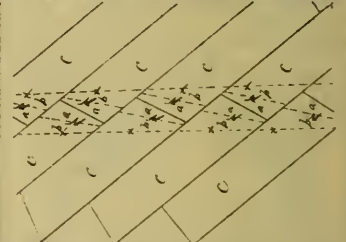
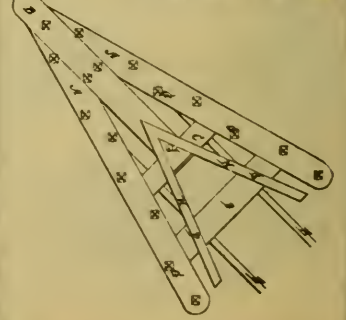
106,831. DANIEL KANE. FANNING-MILLS.

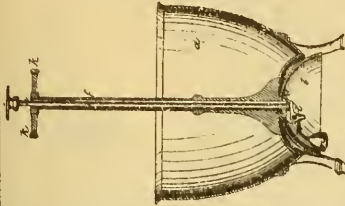
106,832. JOHN STAFFORD KELLY. C. E.
PAVEMENTS.106,833.
WM. W. KNOWLES.
COTTON-PRESSES.106,834. JOSEPH KRAFT. MACHINERY
FOR PRINTING OIL-CLOTH &c.

106,835. JOHN W. KRAMER. DOOR-STRIPS.

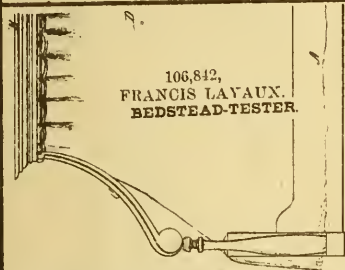
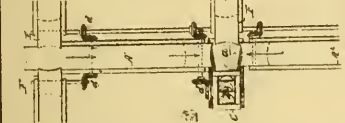
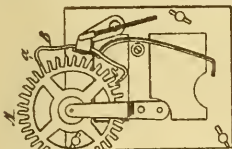
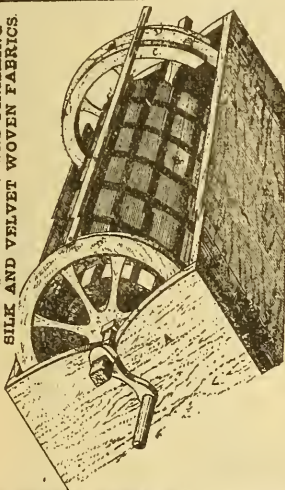
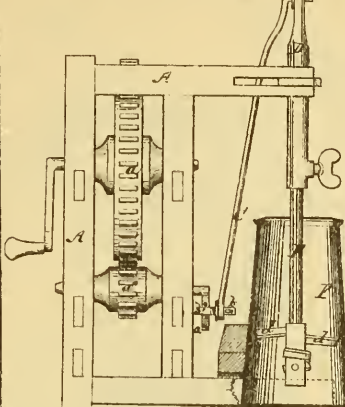
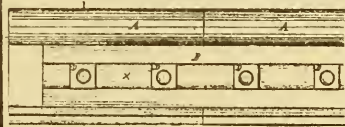
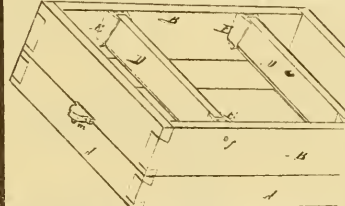
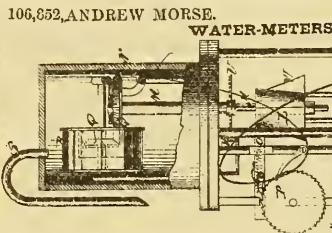
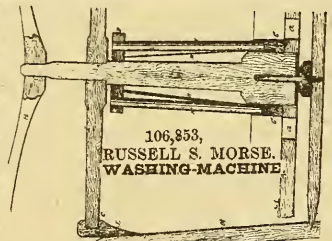
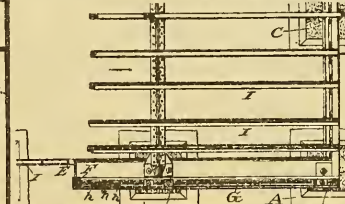
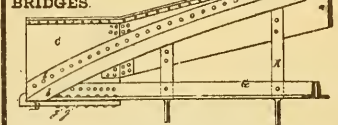
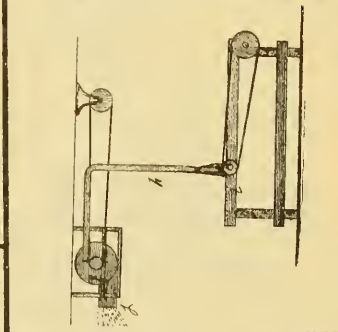
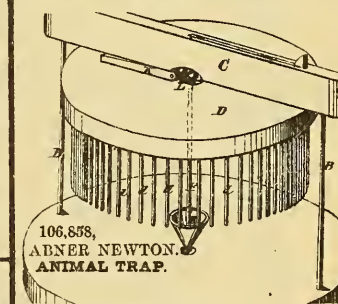
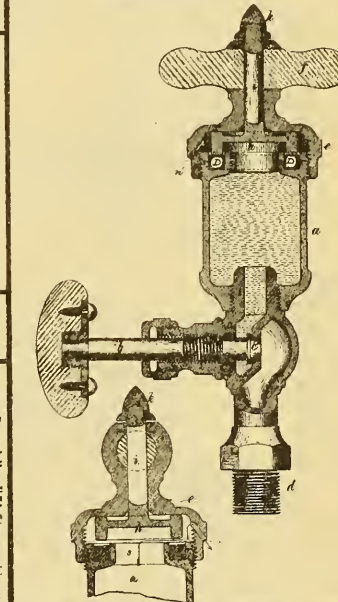
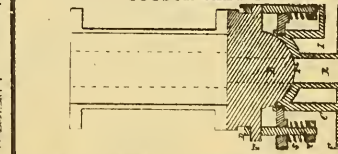


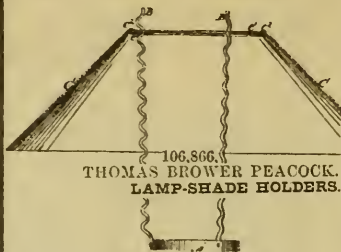
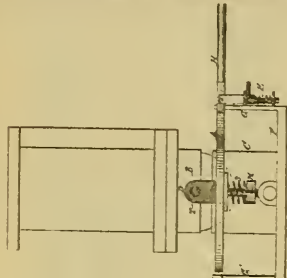
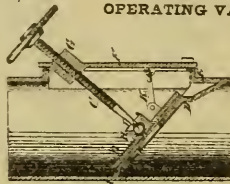
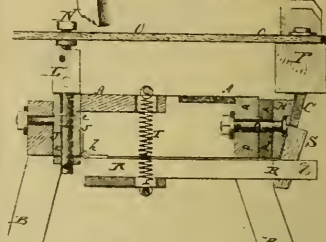
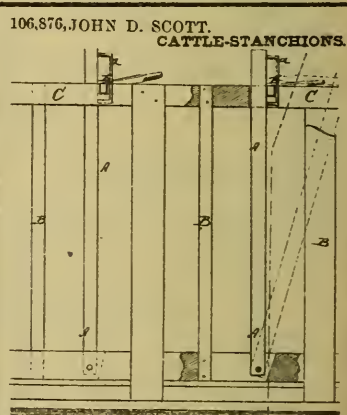
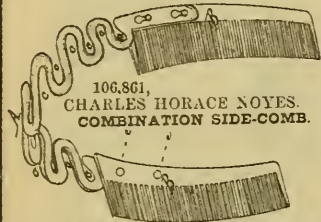
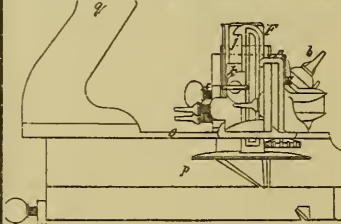
106,836. HERMANN KUHLMANN. CHURNS.

106,837. JACOB M. LANDES.
COMBINED FLOW AND
CULTIVATOR.106,838. JOHN LANE.
MANUFACTURE OF PLOWSHARES.106,839. ALCIDE LANDRY.
SUGAR-CANE SCRAPER.

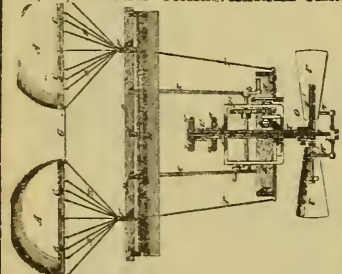
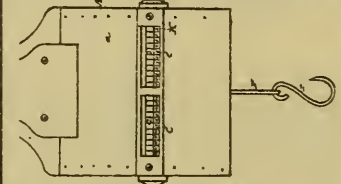
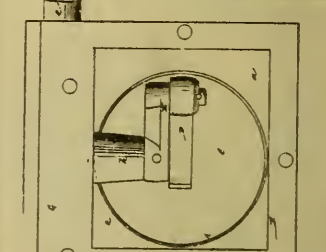
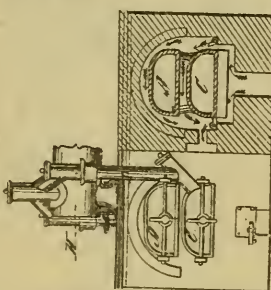
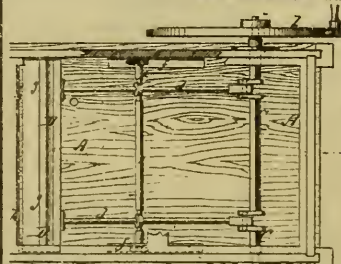
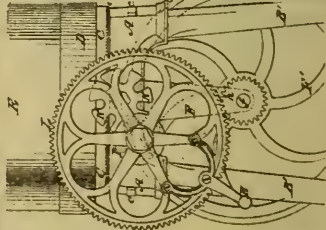
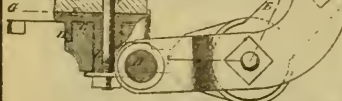
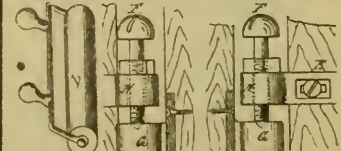
106,840, NATHAN LAWRENCE.
CALL-BELL AND VESSEL

106,841, ALFRED LAWTON, ELEVATORS

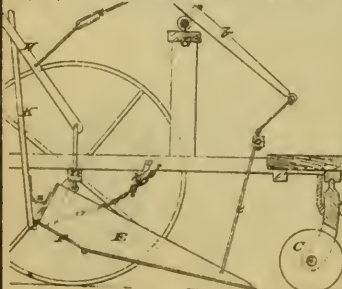
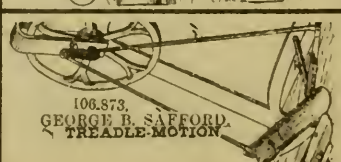
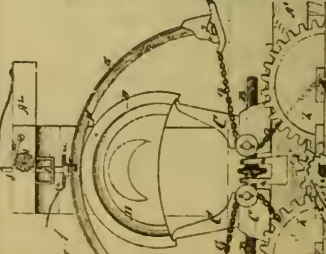
106,842, FRANCIS LAYAUX.
BEDSTEAD-TESTER.106,843, BENJAMIN B. LEWIS.
CLOCK-ESCAPEMENTS.106,844, E. MAFAT.
REEL FOR DYEING AND FINISHING
SILK AND VELVET WOVEN FABRICS106,845, JOHN MARCHBANK.
CONSTRUCTION OF BRUSHES106,846, ANN AUGUSTA MARSH.
MEDICAL COMPOUND.106,847, ANTHONY S. MARTIN.
SAFETY CAR-BRAKE106,848, GEORGE H. MCGLOTHLEN.
CHURNS.106,849, R. L. MCGOWAN, COMBINED
LOCK-NUTS AND SPLICE-BARS.106,850, JOHN McLAUGHLIN.
MOLDING-FLASKS.106,851, CAMPBELL MORFIT.
TREATMENT OF GUANO AND THE
MANUFACTURE OF FER-TILIZERS.106,852, ANDREW MORSE.
WATER-METERS.106,853, RUSSELL S. MORSE.
WASHING-MACHINE.106,854, THOS. W. H. MOSELEY.
IRON BUILDINGS.106,855, THOS. W. H. MOSELEY.
BRIDGES.106,856, BARKER D. MOTT.
HOOD FOR PLANING-MACHINE.106,857, CHARLES NELSON
LUBRICATOR.106,858, ABERN NEWTON.
ANIMAL TRAP.106,859, HENRY NICHOLLS.
COTTON-SEED PLANTERS.

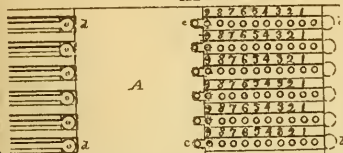
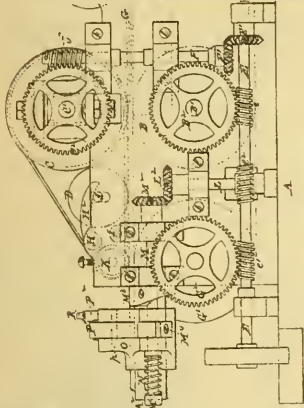
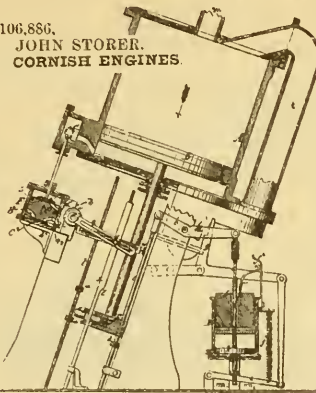
106,860, AUGUST NITTINGER, JR.
OSCILLATING STEAM-ENGINES.106,866,
THOMAS BROWER PEACOCK.
LAMP-SHADE HOLDERS.106,867, ABRAHAM L. PENNOCK.
OPERATING VALVES.106,874, JAMES F. SAYER.
STAVE-JOINTER.106,875, EDWARD SCHARNIKOW.
COMPOUND OR "ROUGH STUFF" TO BE
APPLIED TO CARRIAGE-BODIES &c.106,876, JOHN D. SCOTT.
CATTLE-STANCHIONS.106,861,
CHARLES HORACE NOYES.
COMBINATION SIDE-COMB.106,868, RUSSELL PHILLIPS.
CARPENTERS' PLANE.

106,862, EDWARD OAKES. AERIAL CARS.

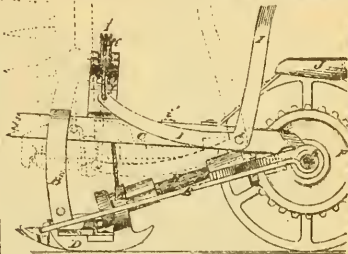
106,869, W. H. PHINNEY. SCALES FOR
SHOWING WEIGHT AND PRICE.106,877, THOMAS C. SCOTTRON.
SIDNEY PLUMMER.
COMPOSITION FOR BLACKING
STOVES, &c.106,878, HENRY C. SERGEANT.
LIQUID-METERS.106,863, TIMOTHY OMEARA.
APPARATUS FOR
PRODUCING GAS FROM COAL.106,870, JOHN PREHN.
WASHING-MACHINE.106,879, ALBERT R. SILVER.
MEAT-CHOPPER.106,864,
BENJ. F. OSBORN.
CULTIVATORS.106,871,
E. F. RICHTER. CLEANSING WOOL.106,872, HENRY W. RUDOLF.
PRESSES FOR STENCIL-PRINTING.

106,865, S. R. OWEN. EARTH-SCRAPER.

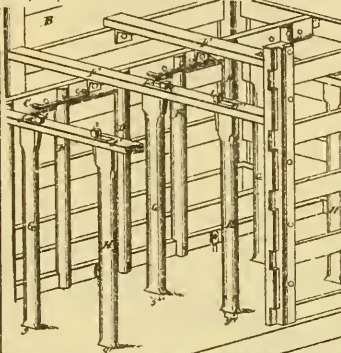
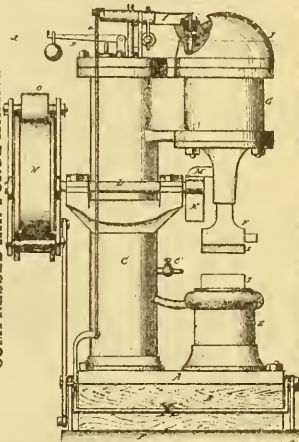
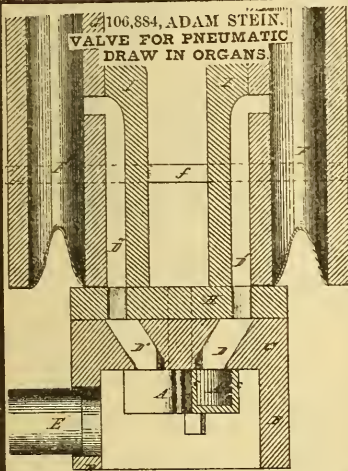
106,873,
GEORGE B. SAFFORD.
TREADLE-MOTION.106,880, AMES K. B. SOLOMON.
MACHINE FOR BENDING WOOD.

106,881, CHARLES E. SPEAR.
ADDING-MACHINE.106,882, L. W. SPENCER PROCESS FOR
MANUFACTURING PLUG TOBACCO.106,883, L. W. SPENCER.
PLUG-TOBACCO MACHINES.106,886,
JOHN STORER.
CORNISH ENGINES

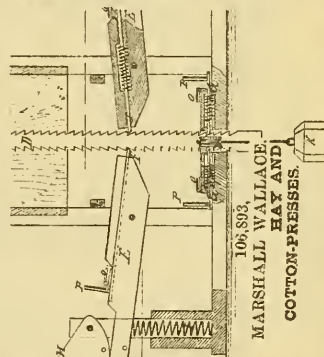
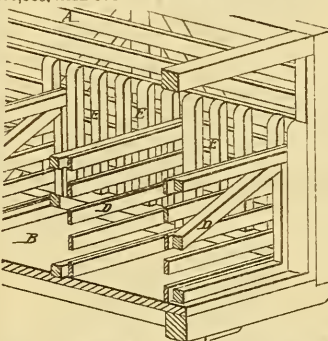
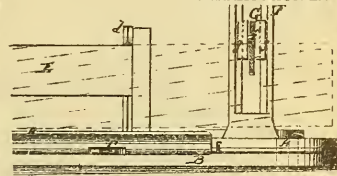
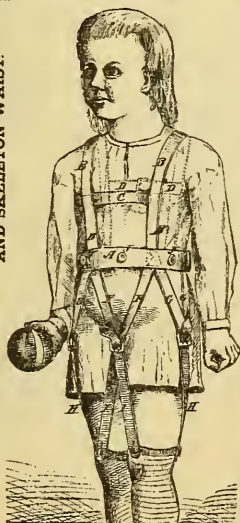
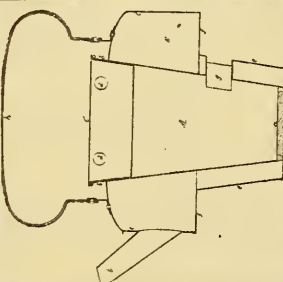
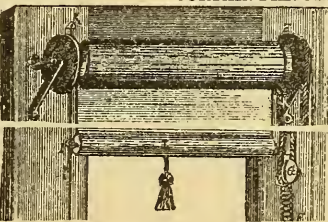
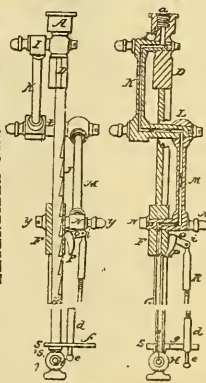
106,891, JOHN S. TRUXEL. HARVESTERS.



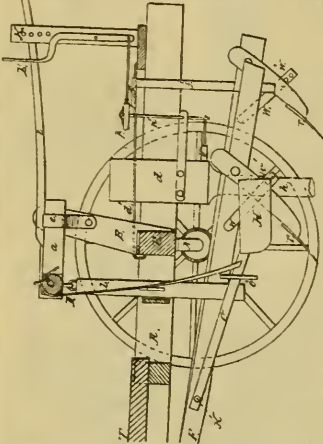
106,887, ZADOK STREET. STOCK-CARS.

106,892, CHARLES VOGEL.
COMPRESSED-AIR FORGE-HAMMER.106,884, ADAM STEIN.
VALVE FOR PNEUMATIC
DRAW IN ORGANS.

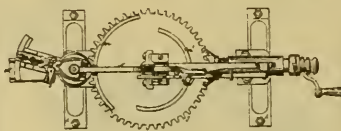
106,888, ZADOK STREET. STOCK-CARS.

106,894, DANIEL B. WARE.
MITER-MACHINE106,885, AUGUSTA M. STIGER.
COMBINED STOCKING-SUPPORTER
AND SKELETON WAIST.106,889, GEORGE L. TAYLOR.
GEORGE C. SETCHELL.
COMBINED
FURNACE AND TEA-KETTLE.106,890, C. M. THIELCKE.
CURTAIN-FIXTURE106,893, GEORGE WARNER.
EXTENSIBLE GAS-PENDANTS.

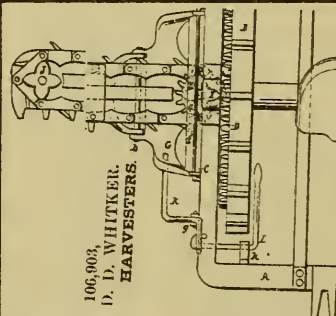
106,896, JAMES B. WATT.
JOHN C. WATT.
SEEDING-PLOWS AND PLANTERS



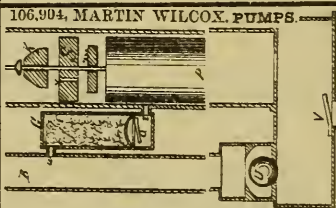
106,901, JOHN C. WHITE.
HEEL-ROUNDING MACHINES.



106,902, JOHN L. WHITING. BRUSHES.



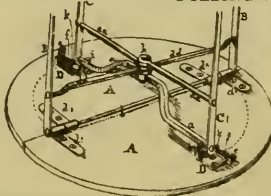
106,903,
D. D. WHITKER.
HARVESTERS.



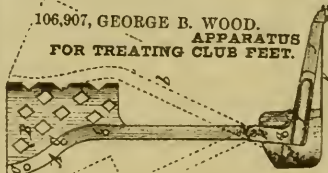
106,904, MARTIN WILCOX. PUMPS.

106,905, WILLIAM M. ^{his} X WILSON.
DALLAS S. DENTON.
MEDICAL COMPOUND.

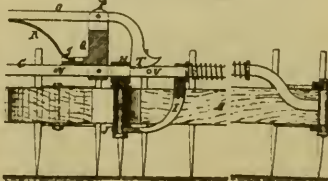
106,906, ALBERT WINDECK.
FOLDING TABLE.



106,907, GEORGE B. WOOD.
APPARATUS
FOR TREATING CLUB FEET.



106,908, STEPHEN WOODARD, HARROW.
ALBERT WOODARD.



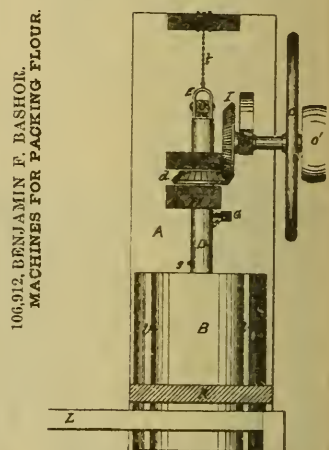
106,909, CHAS. E. YAGEL.
BLACKING-BOX AND BRUSH.



106,910,
HENRY J. ALVORD.
WOOD-PAVEMENT.



106,911, DANIEL ARNDT. CEMENT.

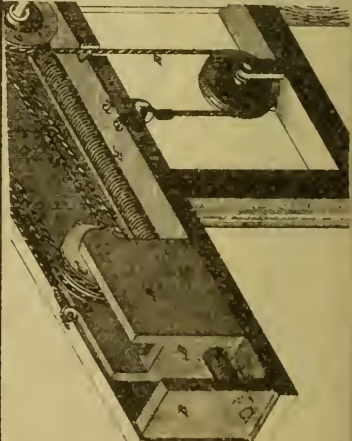


106,912, BENJAMIN F. BASHOK.
MACHINES FOR PACKING FLOUR.

106,913, JOSEPH M. BATCHELOR.
TRACK-LIFTER.

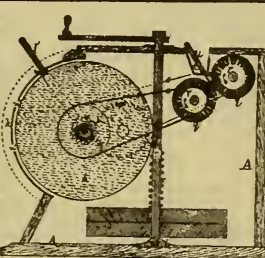


106,914, MICHAEL K. CARPENTER.
HOISTING APPARATUS.

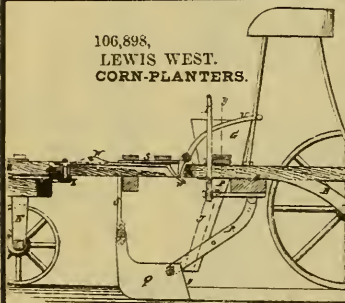


106,915, G. CHEVRIER.
TREATING ACID TARs FROM COAL.

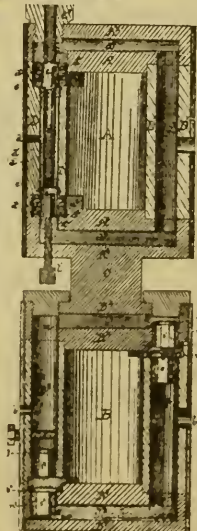
106,897,
HERMAN WEGNER.
FRIEDRICH WEGNER.
KNIFE AND FORK-CLEANER.



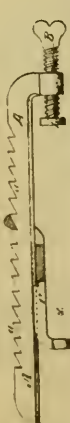
106,898,
LEWIS WEST.
CORN-PLANTERS.



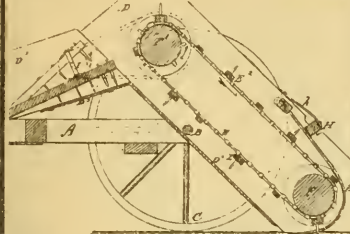
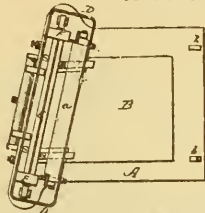
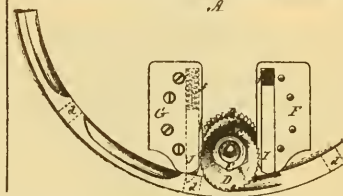
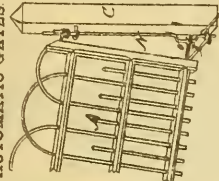
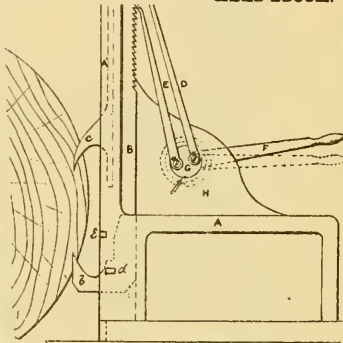
106,899, G. WESTINGHOUSE, JR.
STEAM ENGINE AND PUMP.



106,900, LEVI WHARTON. CLAMP.

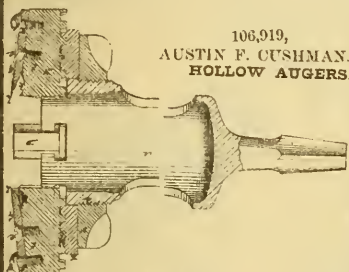
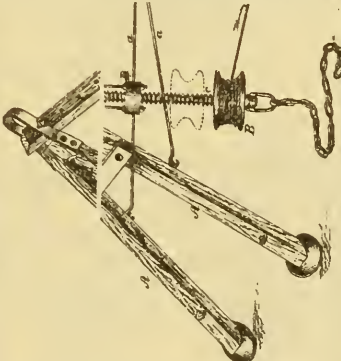


106,916, DAVID CLAGETT. HAY-LOADERS.

106,923, WILLIAM W. DUDLEY.
LIQUID SLATING FOR FORMING
BLACK-BOARDS, &c.106,924, CHAS. A. ENSIGN.
APPARATUS FOR THE MANUFACTURE
OF ELASTIC FABRICS.106,931, HENRY A. GORE. MACHINE FOR
ROUNDING FELLES FOR WHEELS.106,917,
J. B. COTTOM.
AUTOMATIC GATES.106,932, HENRY H. GRIDLEY.
HEAD-BLOCK.

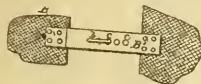
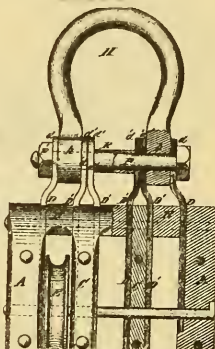
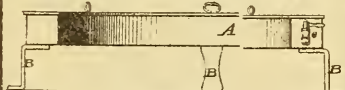
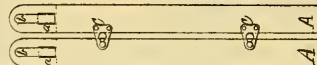
106,918, B. R. CROASDALE.

FERTILIZERS.

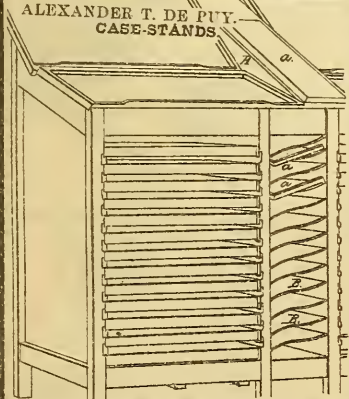
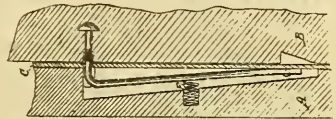
106,919,
AUSTIN F. CUSHMAN.
HOLLOW AUGERS.106,926, ENOCH FARNSWORTH.
STUMP-EXTRACTOR.

106,920, JOSEPH E. DALLOX.

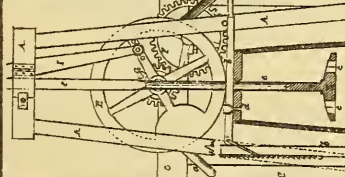
FASTENING FOR GARMENTS.

106,933,
J. F. HARCOURT.
TACKLE-BLOCKS.106,927, JOSHUA R. FAUS.
APPARATUS FOR SATURATING
FELLES WITH OIL.106,934, THOMAS A. HARES.
CORSET-SPRINGS.

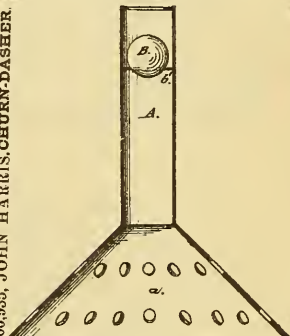
106,921.

ALEXANDER T. DE PUY.
CASE-STANDS106,928, HENRY FICKEL.
SASH-FASTENERS.

106,929, MOSES GASCON. CHURNS.

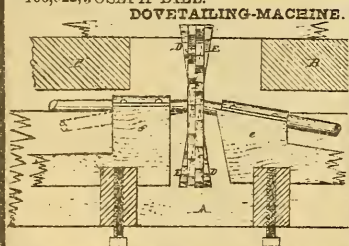
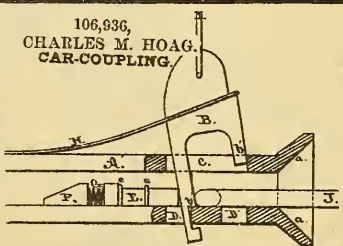


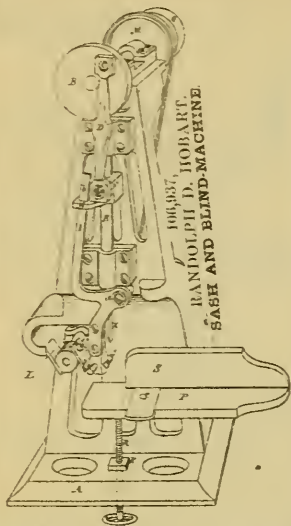
106,935, JOHN HARRIS. CHURN-DASHER



106,922, JOSEPH DILL.

DOVETAILING-MACHINE.

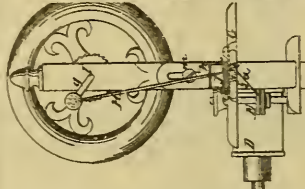
106,930,
PETER GEISER.
L. P. THOMPSON.
MACHINE
FOR TONGUING
AND GROOVING.106,936,
CHARLES M. HOAG.
CAR-COUPLING.



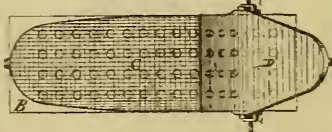
106,942, THOMAS KIRKPATRICK.
FASTENINGS FOR POLICEMEN'S
BADGES



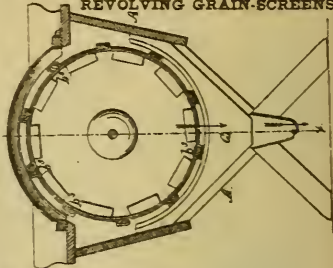
106,943, JENNIE L. LAKE.
SEWING-MACHINE.



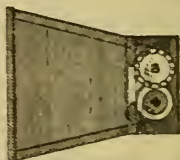
106,944, URSULA L. LEETE.
VAPOR-BATH APPARATUS.



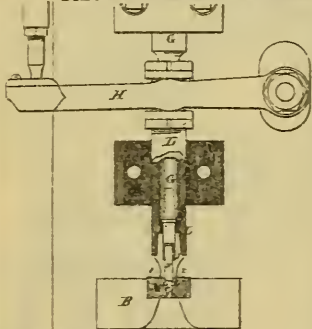
106,949, FRANCIS MILLS.
REVOLVING GRAIN-SCREENS



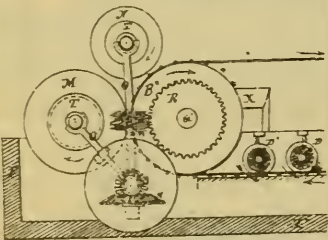
106,950,
M. L. NICKELS.
FEEDER FOR
GRAIN-DRILLS



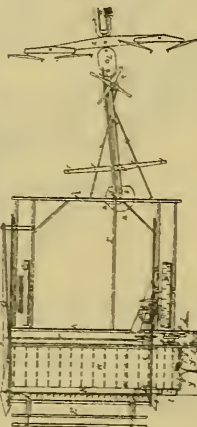
106,938, ESEK TALLMAN,
NICHOLAS G. HOXSIE.
DIES FOR FORMING EYELETS.



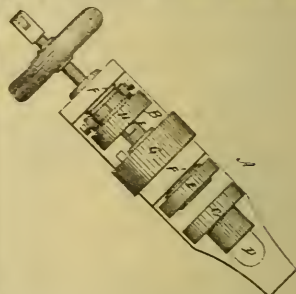
106,939, ESEK TALLMAN,
NICHOLAS G. HOXSIE.
MACHINES FOR CUTTING OUT THE
ENDS OF EYELETS.



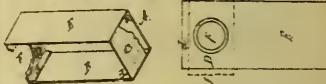
106,915,
SYLVANUS D. LOUKE.
MACHINES FOR CUTTING
AND BINDING GRAIN.



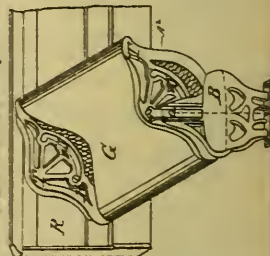
106,951, R. W. NORTON.
MACHINES FOR MAKING WIRE BELLS.



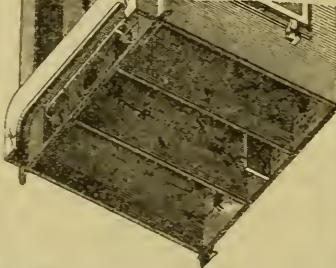
106,952, HENRY ODENKIRCHEN.
PACKAGE FOR TEA AND COFFEE.



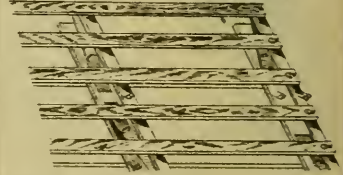
106,953,
JOHN M. O'NEILL.
RAILWAY-CAR SEAT.



106,946, WM. B. MACKENZIE.
COOKING-STOVE.



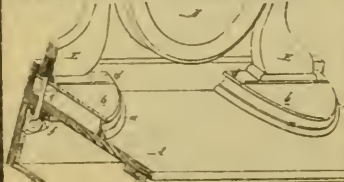
106,954, OTIS S. OSGOOD.
BED-BOTTOM



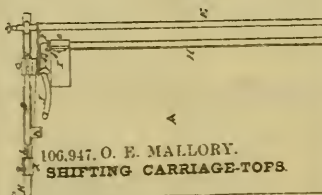
106,940,
WILLIAM H. HUNT
RAILROAD-CAR
VENTILATOR.



106,941, CHENEY KILBURN, BUREAU.



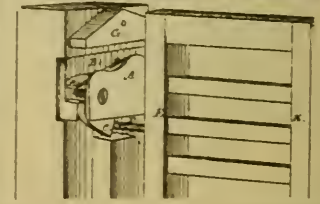
106,947, O. E. MALLORY.
SHIFTING CARRIAGE-TOPS.



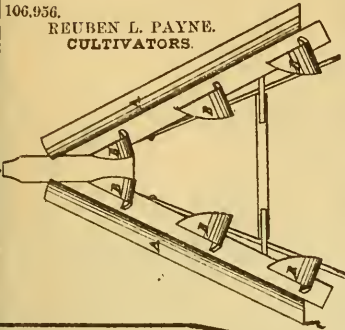
106,948, H. W. MASON
HARVESTER-CUTTER



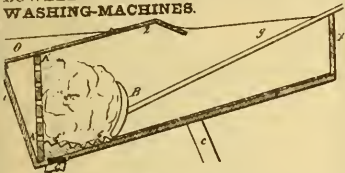
106,955, W. PATTON
LATCHES FOR GATES, &c



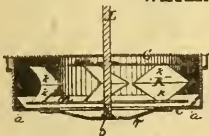
106,956.
REUBEN L. PAYNE.
CULTIVATORS.



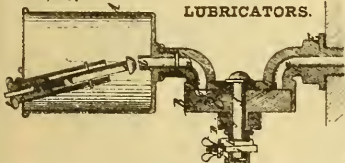
106,957,
LOWELL L. PECK.
WASHING-MACHINES.



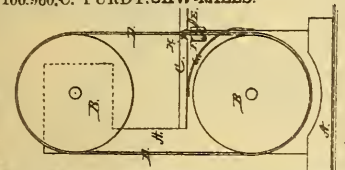
106,958, WILLIAM S. PLACE.
WATER-WHEELS.



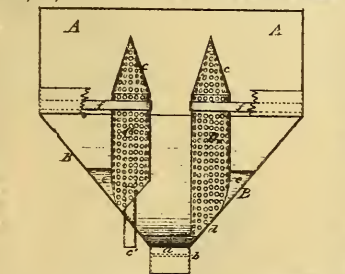
106,959, HUGH PRINGLE.
LUBRICATORS.



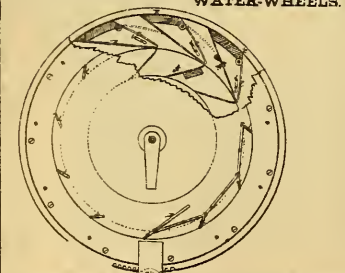
106,960, C. PURDY. SAW-MILLS.



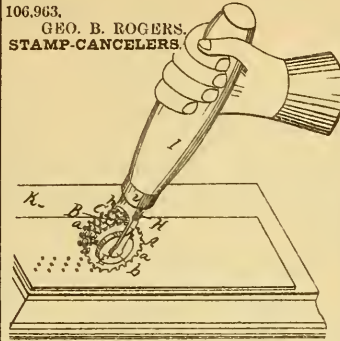
106,961, FITCH RAYMOND. GRAIN-BINS.



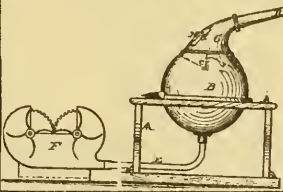
106,962, JOHN R. RICHARDSON.
WATER-WHEELS.



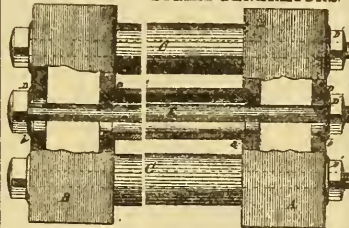
106,963,
GEO. B. ROGERS.
STAMP-CANCELERS.



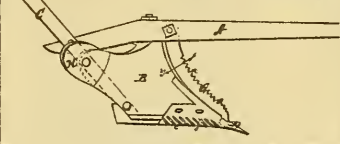
106,964, LOUIS SCHULZE.
APPARATUS FOR
PITCHING BARRELS.



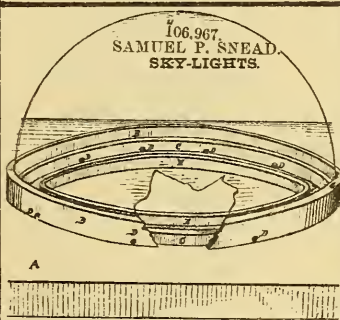
106,965, THOMAS SHARP.
C. S. S. GRIFFING.
STEAM-GENERATORS.



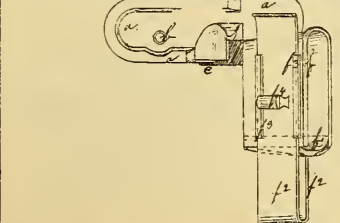
106,966, JUSTIN MALANCEN SMITH.
FLOWS.



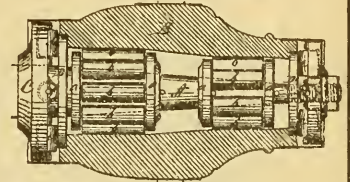
106,967,
SAMUEL P. SNEAD.
SKY-LIGHTS.



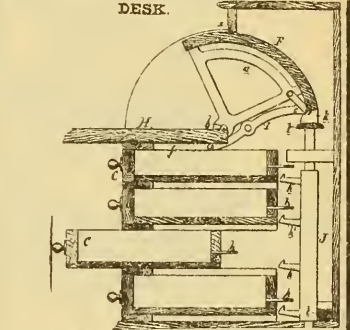
106,968, WILLIAM B. SNYDER.
APPARATUS FOR HEMMING. &c.
FOR SEWING-MACHINES



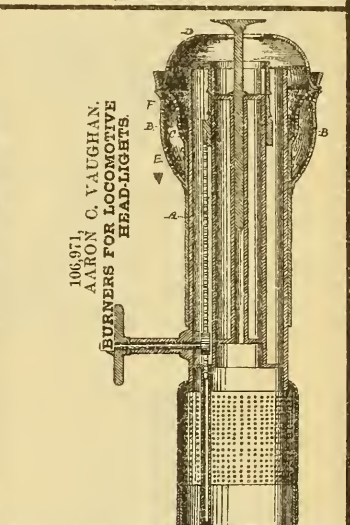
106,969, ALBERT J. STRAIGHT.
AXLE FOR VEHICLES.



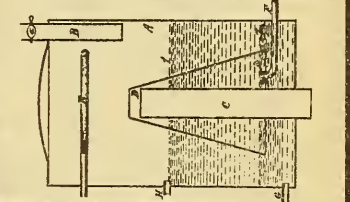
106,970, CHARLES WHARTON TITUS.
DESK.



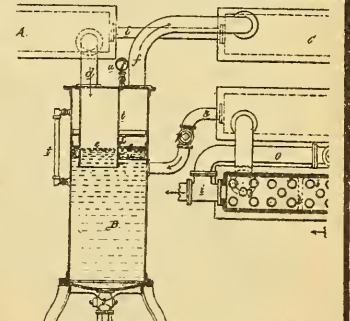
106,971,
AARON C. VAUGHAN.
BURNERS FOR LOCOMOTIVE
HEAD-LIGHTS.

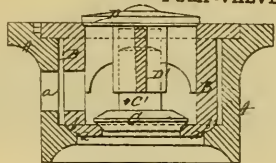
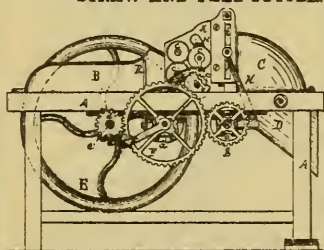
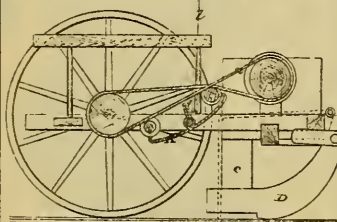
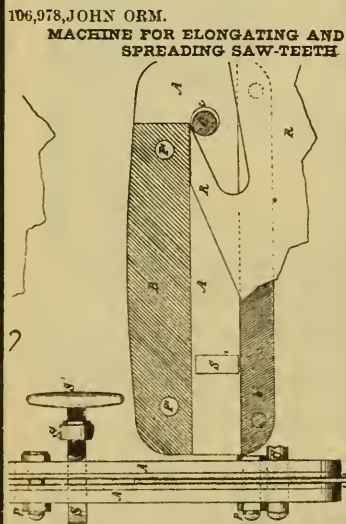
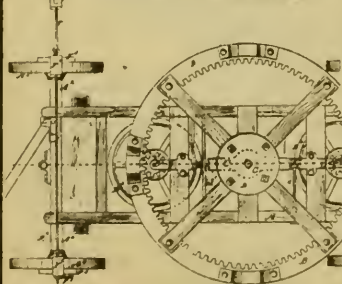
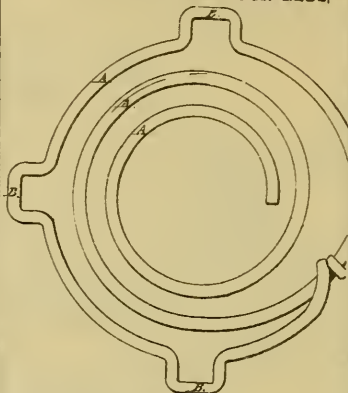
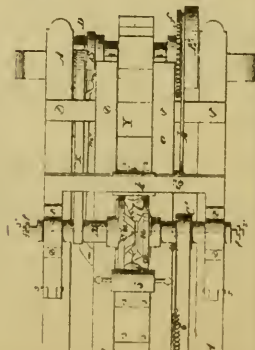
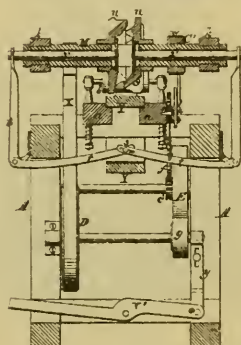
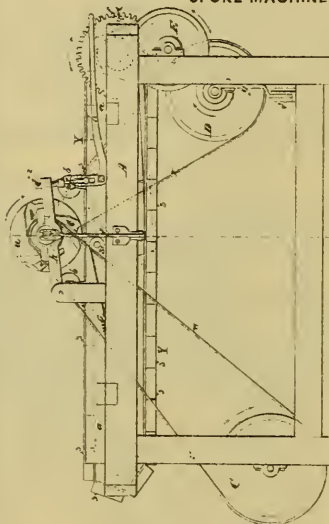
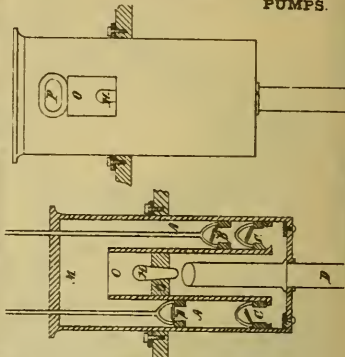


106,972, G. WATERS.
FEED-WATER HEATER.

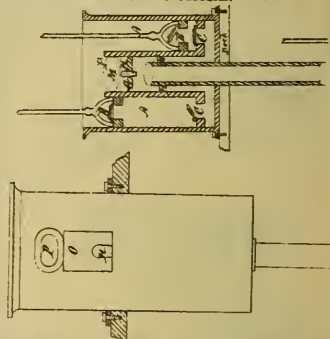


106,973, FRIEDRICH WEGMANN.
CONDENSERS.

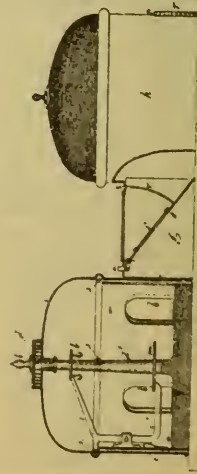


106,974. GEORGE M. WEINMAN.
PUMP-VALVES.106,975. AUGUST WERNER.
STRAW AND FEED-CUTTER.106,976. LUCIUS WINSTON.
CORN-PLANTERS.106,977. HOWELL W. WRIGHT.
COATING TACKS AND NAILS
WITH COPPER.106,979. ABRAHAM GAAR.
HORSE-POWER APPARATUS.106,980. CHARLES RICH.
SPRING FOR BEDS.4,109. R. H. BOYNTON.
SPOKE-MACHINE.4,110. JOHN BROKENSHERE.
PUMPS.

4,111. JOHN BROKENSHERE. PUMPS

4,112. JOHN JACOB LEBEAU.
PARING-KNIFE.

4,113. JOHN A. LEE. ANIMAL-TRAP.

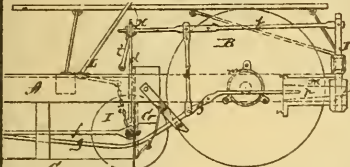
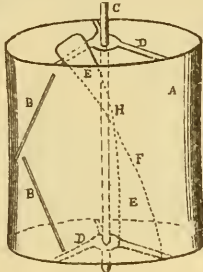
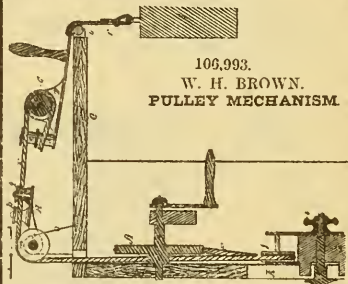
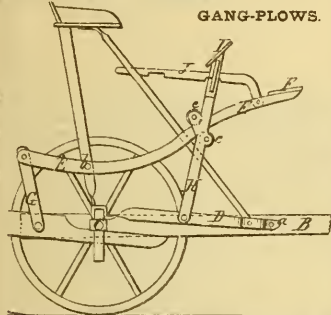
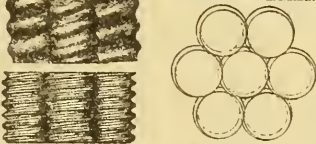
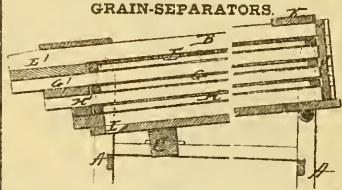


ILLUSTRATIONS OF PATENTS

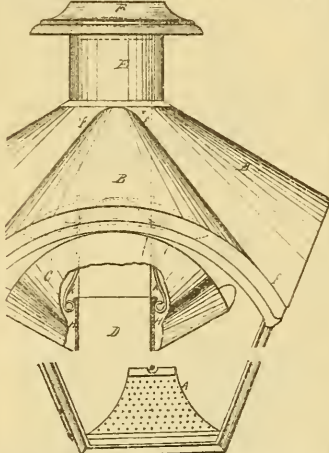
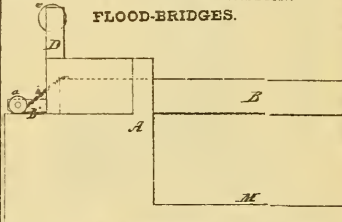
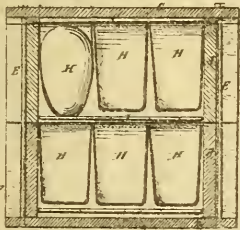
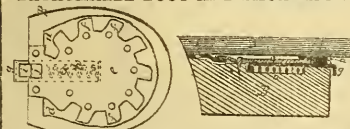
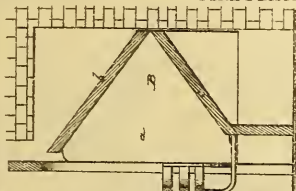
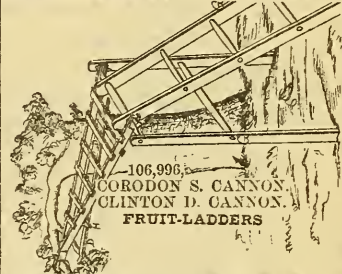
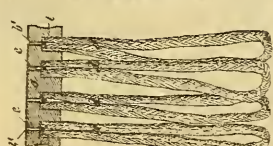
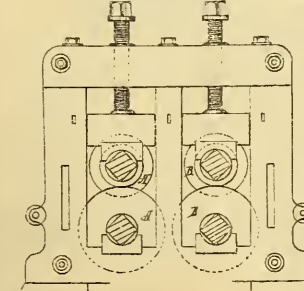
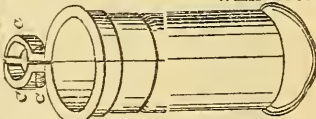
ISSUED FROM

THE UNITED STATES PATENT OFFICE

SEPTEMBER 6, 1870.

106,981, MICHAEL ACKERMAN.
CORN-PLANTERS106,988, JOHN B. BELL.
STAVE-JOINTER106,993.
W. H. BROWN.
PULLEY MECHANISM106,982, JAMES H. ANDREWS.
GANG-PLOWS.106,989, ALBERT BETTELEY.
WOOD PAVEMENTS.106,994, JOHN D. BRUNNER.
E. R. J. UEBERROTH.
GRAIN-SEPARATORS.

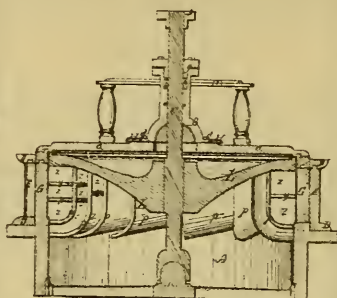
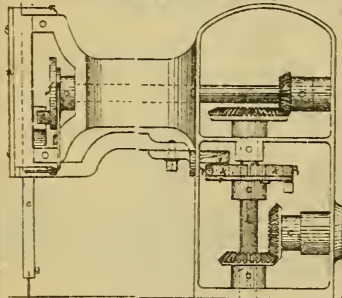
106,990, EMIL BOESCH. STREET-LAMPS.

106,995, THOMAS ALFRED BRYAN.
FLOOD-BRIDGES.106,983.
JAS. H. ASHER.
EGG-CARRIERS.106,984, CHARLES W. BAILEY.
DETACHABLE BOOT AND SHOE-HEEL.106,985, THOMAS W. BAIRD.
FIRE-PLACE.106,991, JAMES BRITTON.
TOPS FOR SHEET-METAL CANS.106,996.
CORODON S. CANNON.
CLINTON D. CANNON.
FRUIT-LADDERS106,997, WILLIAM H. CARTER.
BEDSTEAD-FASTENING.106,986.
BAKER.
C. L. W.
MOP.106,987, GUSTAV A. BECKER.
FOUNTAIN PENS.106,992, WILLIAM BROWN.
DAVID BROWN. ROLLING-MILLS.106,998, EDWIN CHAMBERLIN.
WHIP-SOCKET.106,999, GILBERT W. CHAPIN.
ADDING-MACHINES.

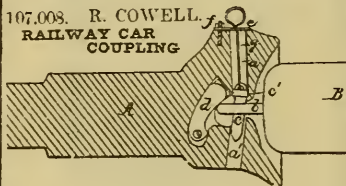
107,000, LEVI CHAPMAN.
MODE OF FORMING UMBRELLA
HANDLES FROM PLASTIC MATERIAL.



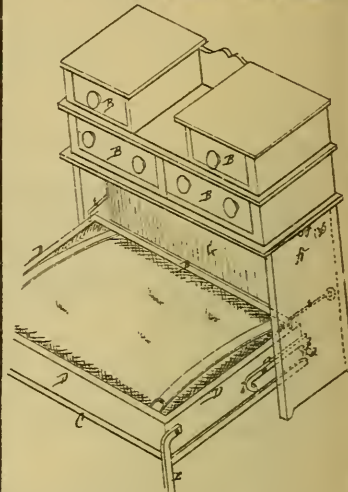
107,001, WILLIAM CHICKEN.
BUTTON-HOLE SEWING-MACHINE.



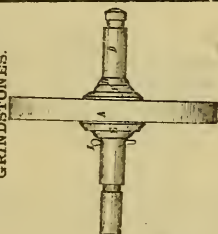
107,008, R. COWELL.
RAILWAY CAR
COUPLING



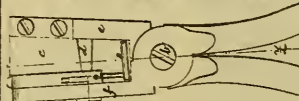
107,013, JOHN ROLPH DAVIS.
FREDERICK ROMINGER.
WARDROBE, BEDSTEAD, AND BUREAU.



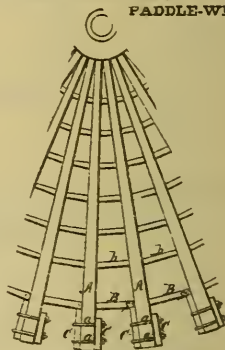
107,002,
HENRY M. CHURCH.
METHOD OF HANGING
GRINDSTONES.



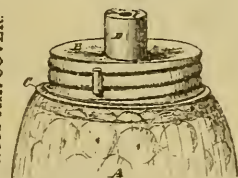
107,009,
DAVID H. CUNNINGHAM.
BUTTON-HOLE CUTTERS.



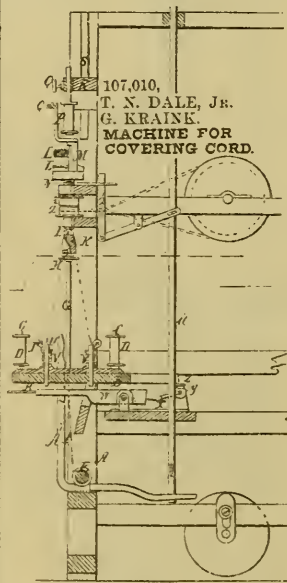
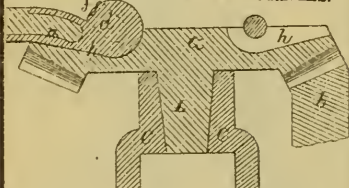
107,014, DAVID DE HAVEN.
PADDLE-WHEELS.



107,003,
THOMAS A. CLARK.
HENRY C. MASCHOFF.
FRUIT-JAR COVER.

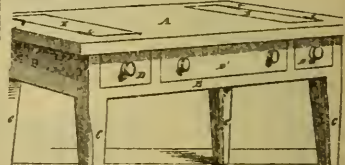


107,004, DANIEL CLOW.
HARVESTER-RAKES.



107,010,
T. N. DALE, JR.
G. KRAINE.
MACHINE FOR
COVERING CORD.

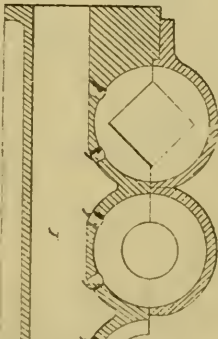
107,015, ELIZA D. DODGE.
COOKING-TABLE.



FREDRICK EGGE.
107,016, ROBERT W. CHURCHILL.
IMPLEMENT FOR CUTTING THREAD.



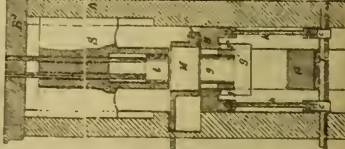
107,005, Z. E. CORFIN.
DEVICES FOR LUBRICATING,
COOLING, AND WASHING
HAMMER-SHAFTS OR STAMPS.



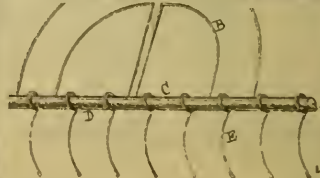
107,011, CORNELIUS E. DAVIS.
MAXILLARY COMPRESS.



107,017, JOSIAH S. ELLIOTT.
BRICK-MACHINE.



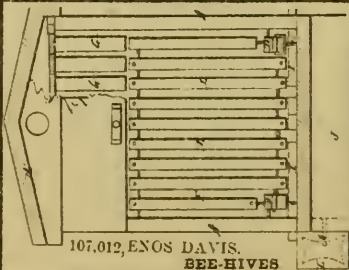
107,018, MINOT ELLIS. HAND-RAKE.



107,006, W. M. F. COLLIER.
WIRE FOR WIRE GOODS.

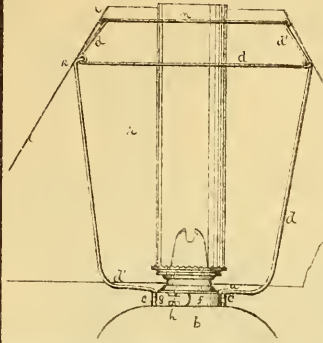
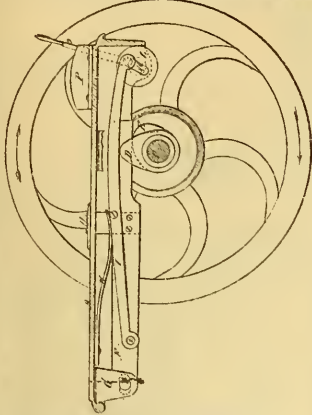


107,007, J. M. COOK. WATER-WHEELS.



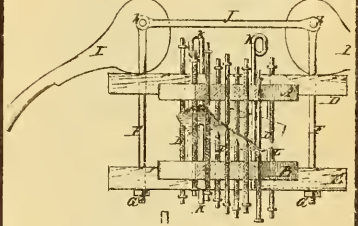
107,012, ENOS DAVIS.
BEE-HIVES

107,019, GEORGE A. FAIRFIELD.
FEEDING MECHANISM FOR
SEWING-MACHINES.

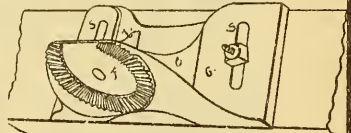


107,027, P. FOLLIET.
COMPOUNDS FOR DESTROYING THE
OIDIUM IN VINES, PLANTS, &c.

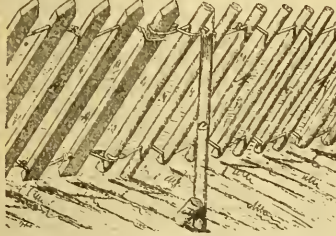
107,032, JONATHAN H. FRANKLIN
ADJUSTABLE DIE FOR BENDING
MOLD-BOARDS.



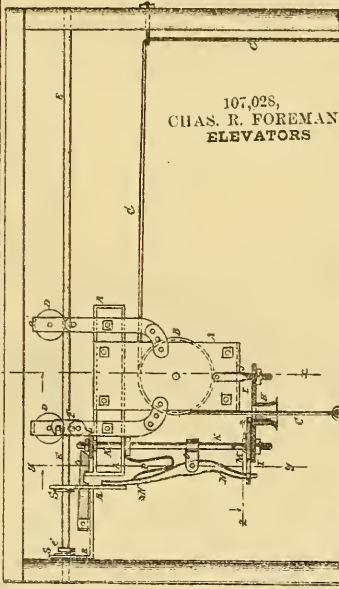
107,033, HORATIO GALE. FLOWS.



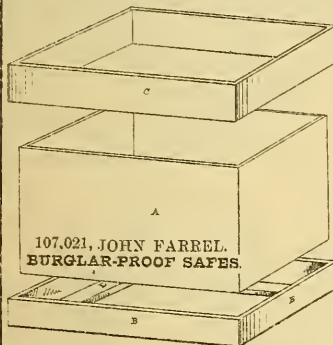
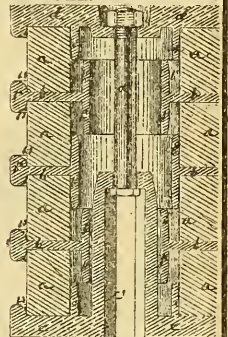
107,020, EDWARD FALES. FENCE



107,028,
CHAS. R. FOREMAN.
ELEVATORS

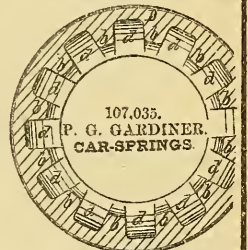
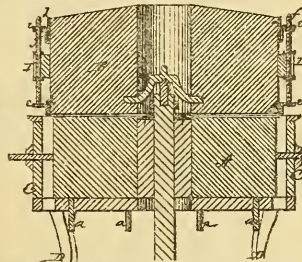


107,034, P. G. GARDINER. CAR-SPRINGS



107,021, JOHN FARREL.
BURGLAR-PROOF SAFES.

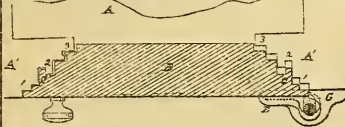
107,029, C. V. FOREMAN.
BALANCING MILLSTONES.



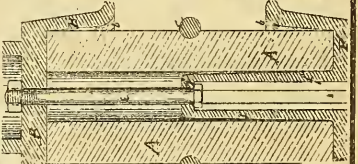
107,035,
P. G. GARDINER.
CAR-SPRINGS.

107,022 JOHN FARREL.
FILLING FOR FIRE-PROOF SAFES

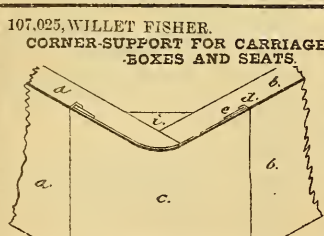
107,023, JOHN FARREL.
MECHANISM FOR OPENING AND
CLOSING SAFE-DOORS.



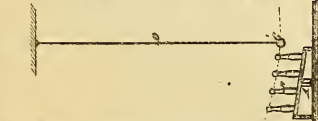
107,036, P. G. GARDINER. CAR-SPRINGS.



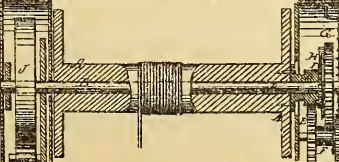
107,024, MICHELE FERRO.
MEDICAL COMPOUND FOR THE CURE
OF FEVER AND AGUE



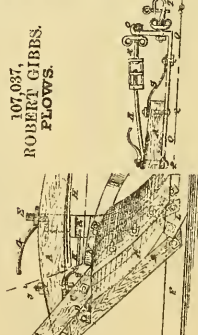
107,030, GEORGE B. FOWLER.
GAME-BOX FOR TEN-PINS.



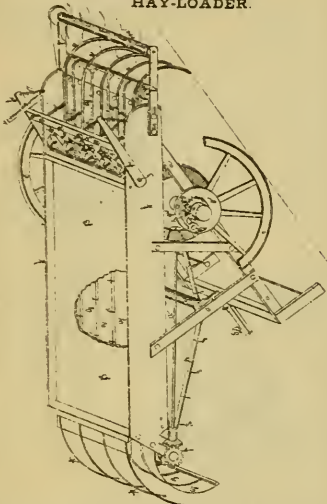
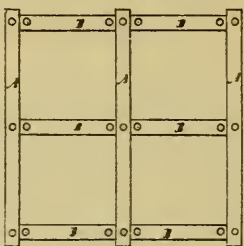
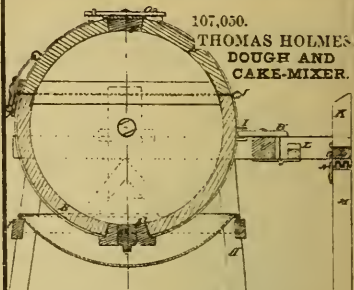
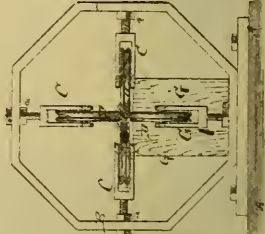
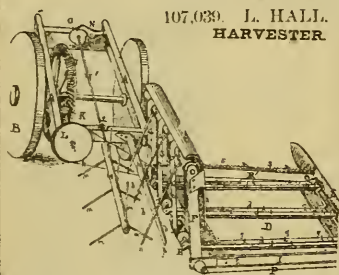
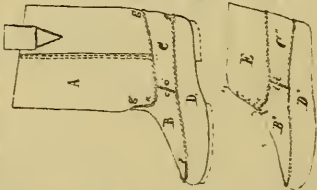
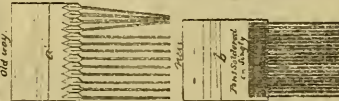
107,031, WILLIAM J. FOX.
SELF-WINDING COUNTER-SPOOL.



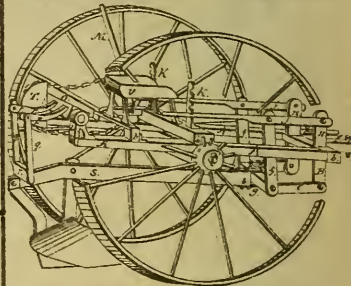
107,037,
ROBERT GIBBS.
FLOWS.



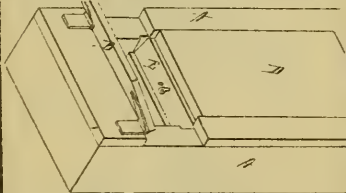
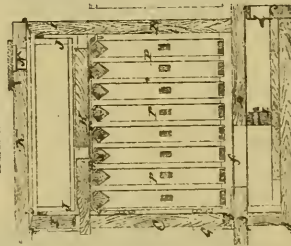
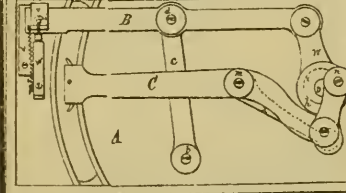
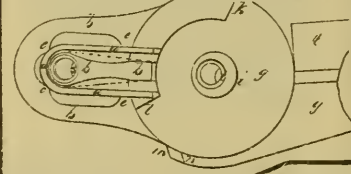
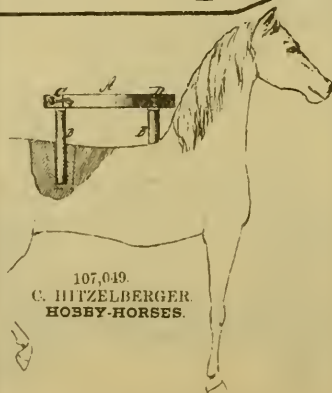
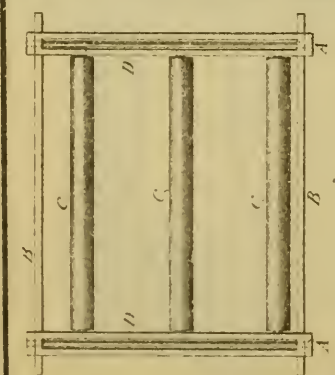
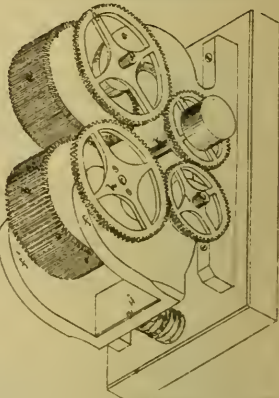
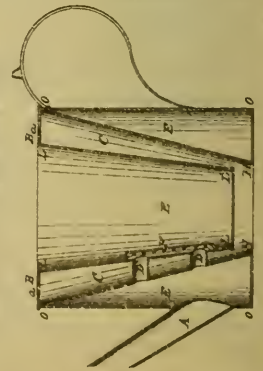
107,026, JOHN FOLLER.
LAMP-SHADE HOLDERS.

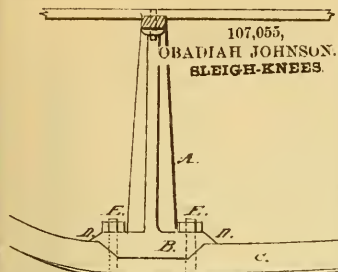
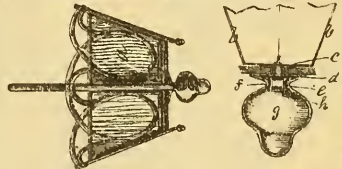
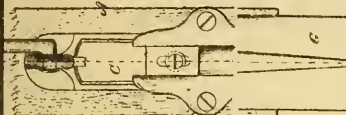
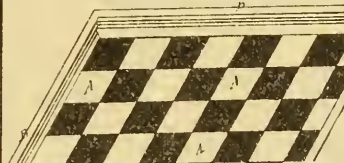
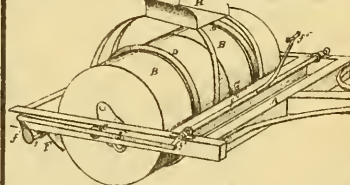
107,038. HENRY L. GOCKLEY.
HAY-LOADER.107,043. SAMUEL H. HARRIS.
FRAMES OF SAFE CASES FOR PAPERS107,050.
THOMAS HOLMES.
DOUGH AND
CAKE-MIXER.107,051. BENJAMIN F. HOUSEL.
SIMEON O. THAYER.
MACHINES FOR MAKING TUBULAR
LIGHTNING-CONDUCTORS.107,039. L. HALL.
HARVESTER.107,045. THOMAS HERSEY.
MCCASIN BOOTS AND SHOES.107,046. W. O. HICKOK.
PENS FOR RULING-MACHINES.

107,052. B. R. HUBBARD. SULKY-FLOWS.

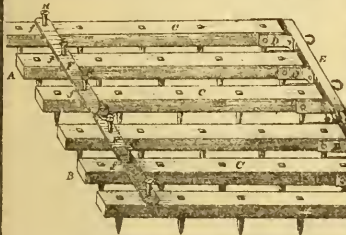
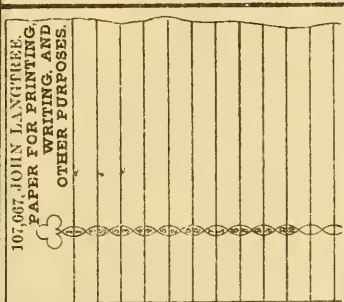
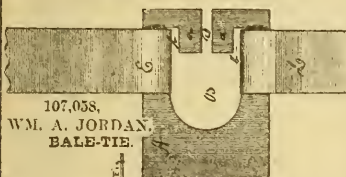
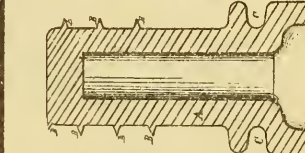
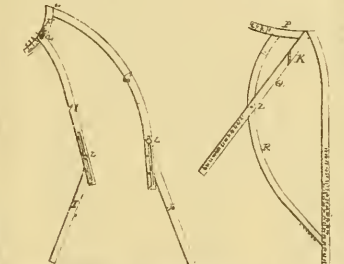
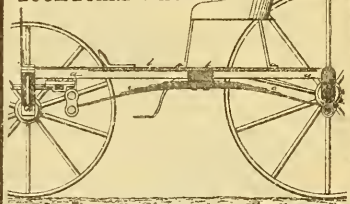
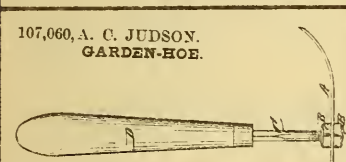
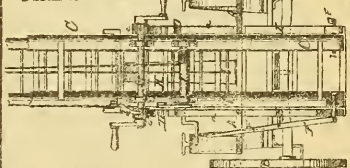
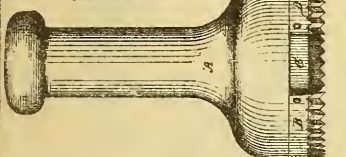


107,040. W. M. HALL, JR. GRAIN-DUMPS.

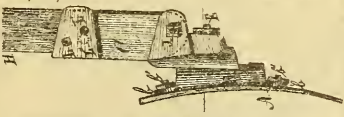
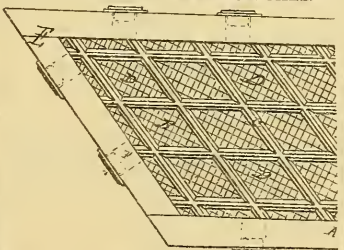
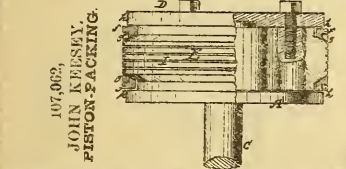
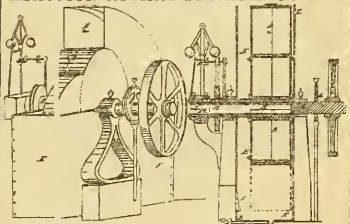
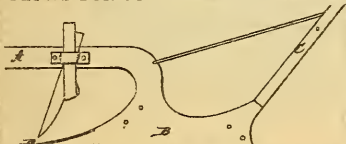
107,047.
JOSEPH M. HICKS.
BEE-HIVES.107,041. CHARLES F. HARLOW.
SEWING-MACHINE.107,048. G. W. HILDRETH.
SCHOOL-SEATS.107,042. S. H. HARRIS
SAFE CASES FOR BOOKS107,049.
C. HITZELBERGER.
HOBBY-HORSES.107,053. DAVID JAMES HUNTER.
SEPARATING STONES, &c.,
FROM CLAY, &c.107,054. EDWARD HUNTER.
TEA-FOT OR WATER-HEATER.

107,073. THOMAS McCLUNIE.
FLOWER-POTS, VASES, AND BASKETS.107,056, J. HERVA JONES.
SEEDING-MACHINE.107,065, CONRAD KRATH.
GUSTAV HERMANN MOLL.
COMBINATION GAME-BOARD.107,074, ROBERT ANDERSON McCONAUGHY.
FIELD-ROLLERS.

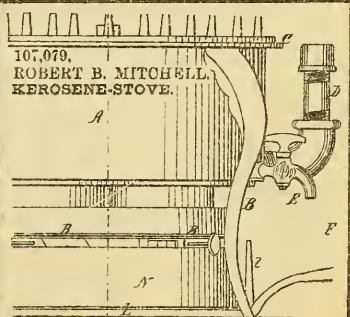
107,057, WILLIAM P. JONES. HARROWS.

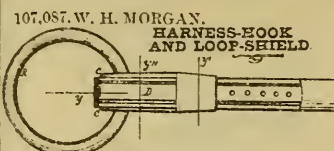
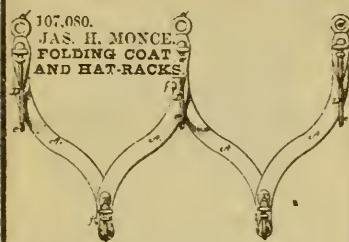
107,066, GEO. LA MONTAGUE.
PECTORAL SIRUP OR MEDICINE.107,075, SAM'L. McKEE.
TELEGRAPH-INSULATORS.107,068, URSULA L. LEETE. INSTRUMENT
FOR DRAUGHTING GARMENTS107,076, MICHEL MILLER.
BUCK-BEARD WAGONS.107,059, WILLIAM N. JORDAN.
PAINT COMPOUNDS.107,077, WILLIAM MILLER.
FIRE-ESCAPES.107,061, JOSEPH KAUFMAN.
CAN-OPENERS.

107,069, JAS. R. LITTLE. CULTIVATORS.

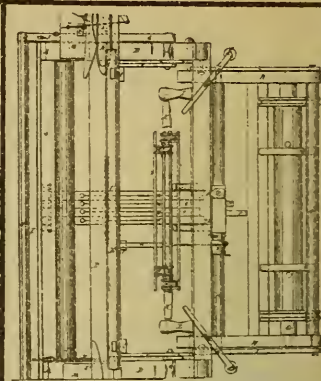
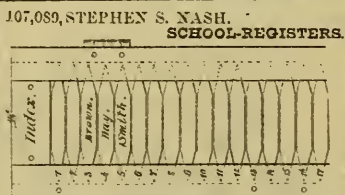
107,070, G. A. LLOYD.
FRUIT-CARRYING BOXES.107,078, FRANCIS E. MILLS.
REACTION ROTARY STEAM-ENGINE.107,063, HORACE M. KEITH.
FLOWS FOR CUTTING POTATO-ROOTS.107,071, OSCAR LOEW. PROCESS OF
OBTAINING OZONE OR OZONIZED AIR

107,072, J. F. MARSH. VAPOR-BURNERS

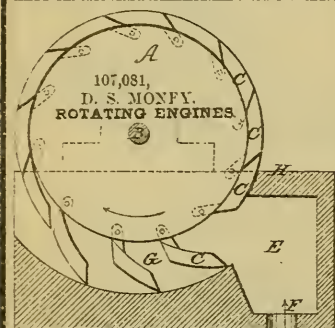




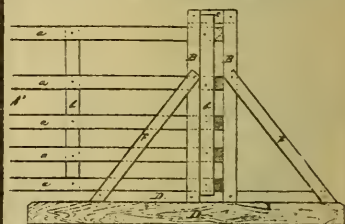
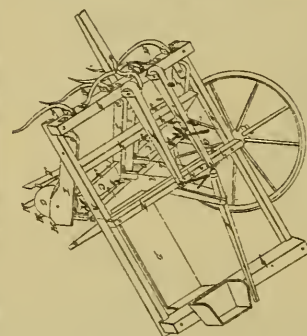
107,088. J. J. A. MOURIES.
PRESERVING BREAD.



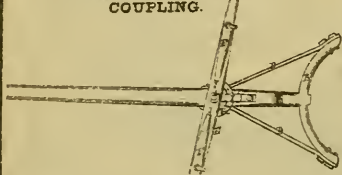
107,095. THOS. W. OWENS. FENCE.



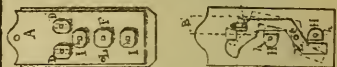
107,090. A. J. NEBERGALL.
CORN-STALK CUTTERS.



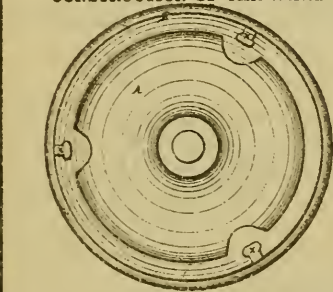
107,082. CHARLES A. MOORE.
CARRIAGE-POLE
COUPLING.



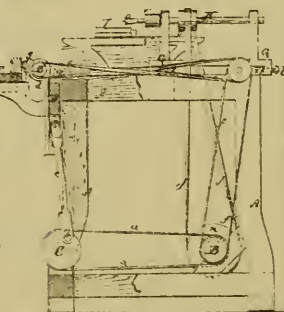
107,096. PETER PETERSON.
BOLT-FASTENINGS.



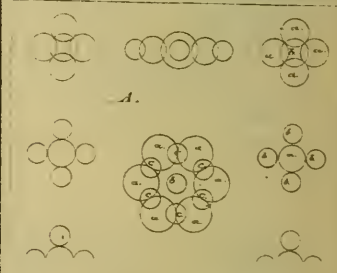
107,083. J. K. MORANGE.
N. B. MORANGE.
CONSTRUCTION OF CAR-WHEELS.



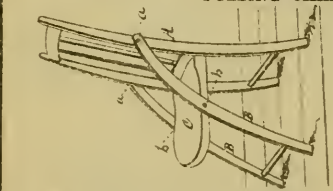
107,091.
GONDREAU M. NICKASON.
MACHINE FOR BORING
AND MARKING.



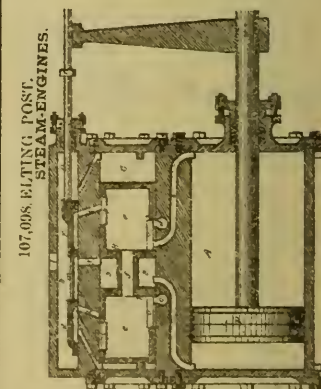
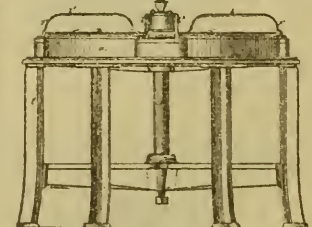
107,097. T. W. PORTER.
H. K. PORTER.
METHOD OF INLAYING WOOD.



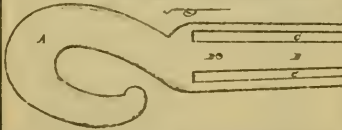
107,084. EZEKIEL P. MORE.
SAMUEL J. ANDERSON.
FOLDING CHAIR.



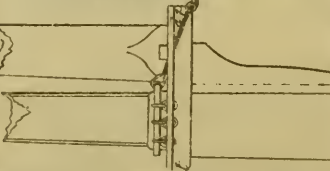
107,092. CARL NORDELL.
SHINGLE-MACHINES.



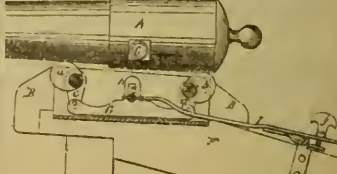
107,085. W. H. MORGAN. TRACE-HOOK.



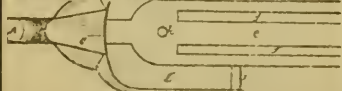
107,093. JAMES NUTE.
APPARATUS FOR ATTACHING
STANDING RIGGING TO MASTS



107,099. ABIA THER F. POTTER.
GUN-CARRIAGES.

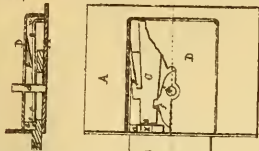


107,086. W. H. MORGAN.
TRACE-HOOK AND CLIP FOR HARNESS.

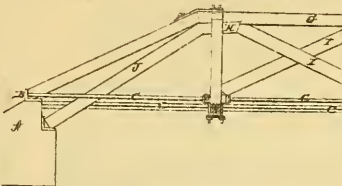
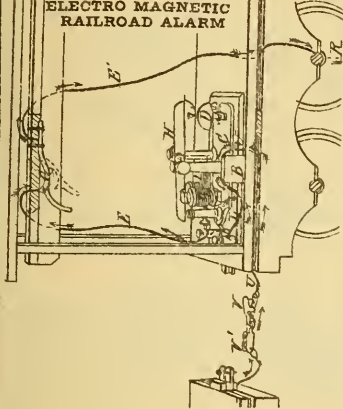
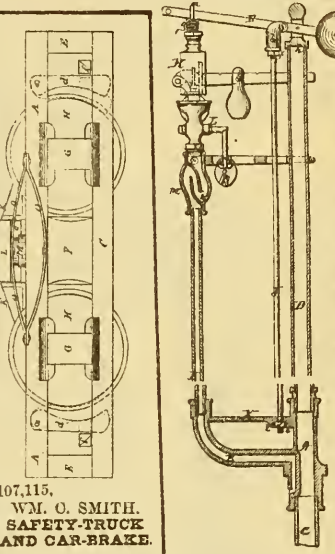
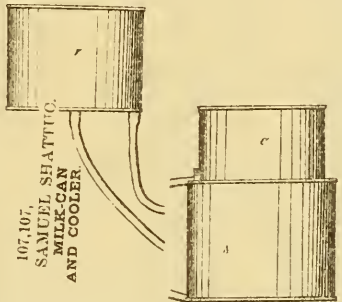
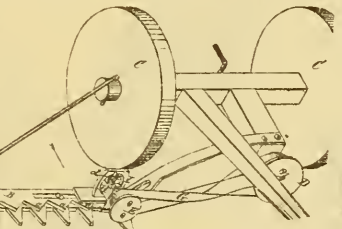
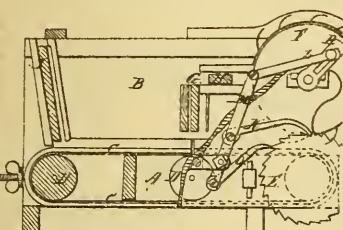
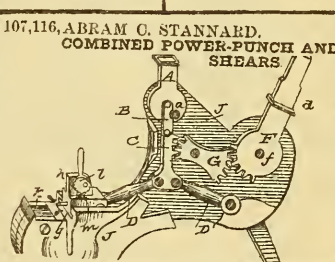


107,094. JAMES E. NUTE. HAND-LOOMS.

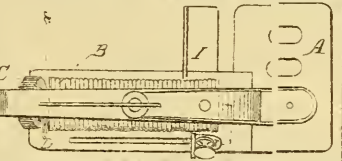
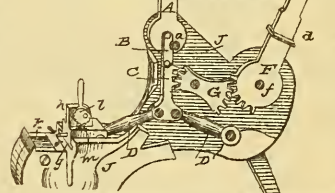
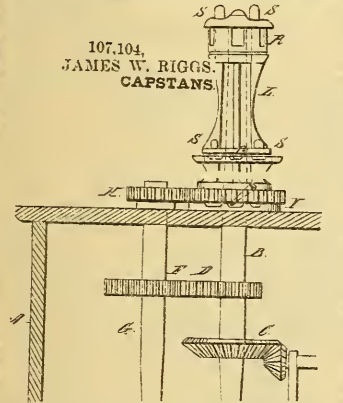
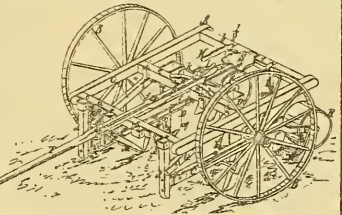
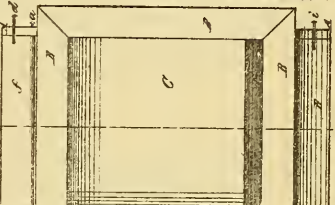
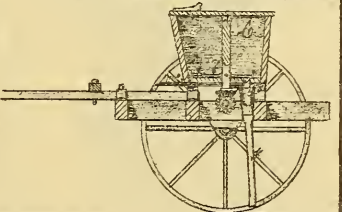
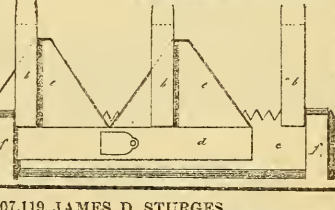
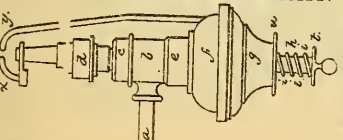
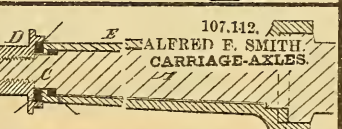
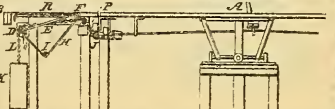
107,100, TITUS POWERS, LOCKS.



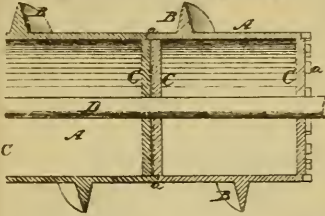
107,106, JACOB SEEBOLD, BRIDGES.

107,113, CHARLES S. SMITH
RAILWAY SWITCHES.107,101, E. H. PURSELL,
ELECTRO MAGNETIC
RAILROAD ALARM107,114, LEVI F. SMITH,
LOW-WATER AND HIGH-STEAM
INDICATOR107,107,
SAMUEL SHATTUCK,
MILK-CAN
AND COOLER107,108, GEORGE F. SHAW,
MOWING-MACHINES.107,102, J. RALSTON,
COTTON GIN FEEDER.107,115,
WM. O. SMITH,
SAFETY-TRUCK
AND CAR-BRAKE.

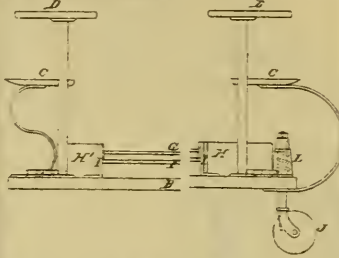
107,103, GEO. RICHARDSON, DRAIN-PIPES.

107,109, JOHN J. SIBLEY,
TUCK-CREASING ATTACHMENT FOR
SEWING-MACHINES107,116, ABRAHAM C. STANNARD,
COMBINED POWER-PUNCH AND
SHEARS107,104,
JAMES W. RIGGS,
CAPSTANS.107,110, CLARK SINTZ,
CORN-FLOW AND PLANTER.107,117, HENRY A. STODDARD,
LOCOMOTIVE ASH-PAN.107,111, GEO. W. SIZER,
W. M. OWEN,
GUANO-DISTRIBUTING MACHINE107,118, DANIEL STUKEY,
HARVESTER-CUTTERS107,105, HORACE T. ROBBINS,
APPARATUS FOR LIGHTING
GAS BY ELECTRICITY.107,112,
WALFRED F. SMITH,
CARRIAGE-AXLES107,119, JAMES D. STURGES,
BRIDGE-GATES.

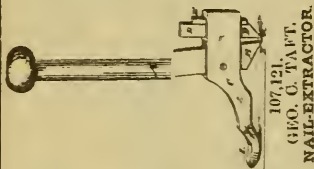
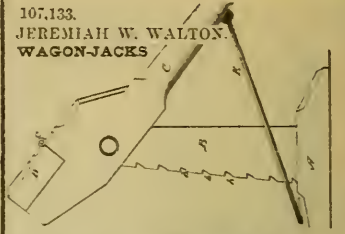
107,120, ROBERT SUTTON.
PROPELLERS FOR STEAM VESSELS.



107,126, D. W. TRAVIS AND
C. MCCLINTON BINDING ATTACHMENT
FOR HARVESTERS.

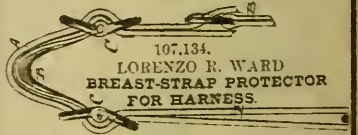
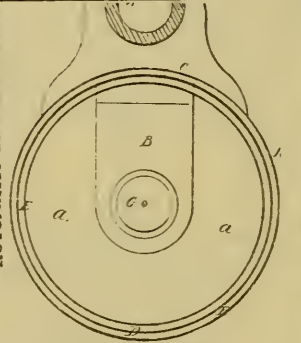


107,133.
JEREMIAH W. WALTON.
WAGON-JACKS.



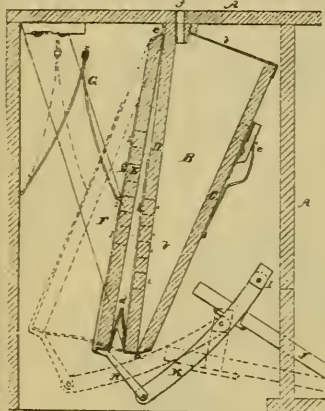
107,121.
GEO. C. TAFT.
NAIL-EXTRACTOR.

107,127, SAMUEL O. TRUDELL.
AUTOMATIC GAS-REGULATOR.

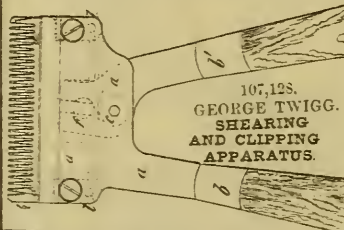
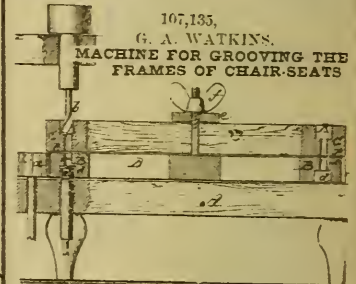


107,134.
LORENZO R. WARD
BREAST-STRAP PROTECTOR
FOR HARNESS.

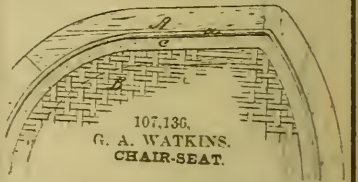
107,122, SIMEON TAYLOR.
REED-ORGAN BELLOWS-ACTION



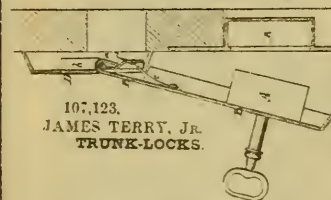
107,135,
G. A. WATKINS.
MACHINE FOR GROOVING THE
FRAMES OF CHAIR-SEATS



107,123.
GEORGE TWIGG.
SHEARING
AND CLIPPING
APPARATUS.

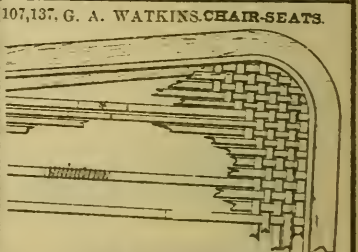
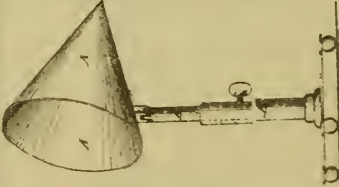


107,136.
G. A. WATKINS.
CHAIR-SEAT.



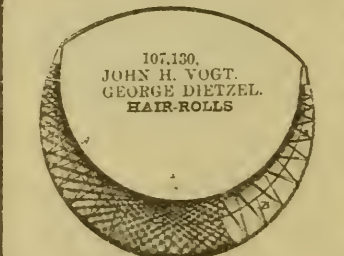
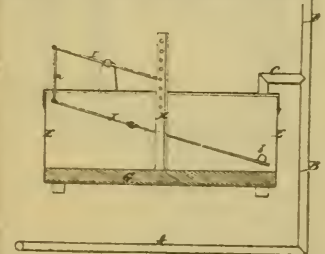
107,123.
JAMES TERRY, JR.
TRUNK-LOCKS.

107,129, DANIEL W. VAN RIPER.
PHOTOGRAPHIC BACKGROUND.

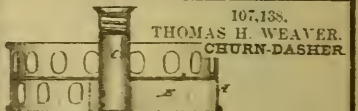


107,137, G. A. WATKINS. CHAIR-SEATS.

107,124, JOHN THOMAS.
DEVICE TO REGULATE THE FLOW
OF SAP TO EVAPORATING-PANS

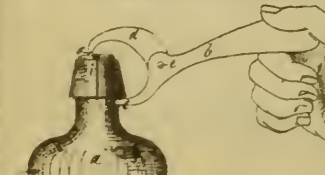


107,130,
JOHN H. VOGT.
GEORGE DIETZEL.
HAIR-ROLLS

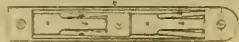


107,138.
THOMAS H. WEAVER.
CHURN-DASHER

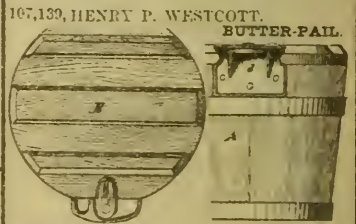
107,125, JUSTUS A. TRAUT.
DEVICE FOR CUTTING WIRE OR CORD
FROM BOTTLE-STOPPERS.



107,131, JAMES H. WAITE.
BEDSTEAD-FASTENING



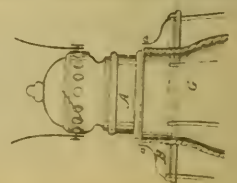
107,139, HENRY P. WESTCOTT.
BUTTER-PAIL.

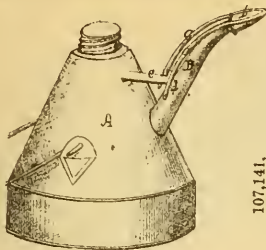


107,132, MARTIN F. WALTER.
CH. STAUDINGER
HEEL-CALKS

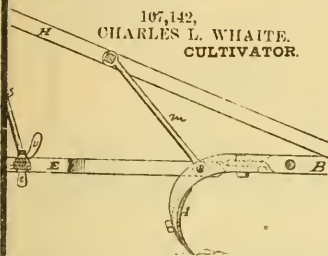


107,140,
WILLIAM WESTLAKE.
LANTERNS.





107,141, WILLIAM WESTLAKE.
OIL-CANS.



107,142, CHARLES L. WHAITE.
CULTIVATOR.

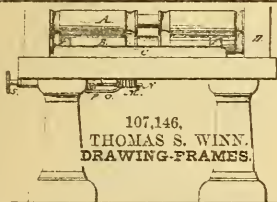
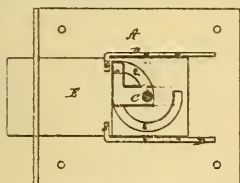
107,143, L. H. WHITNEY. SCREW FOR
SOLES AND HEELS OF SHOES.



107,144, FREDERICK M. WILDMAN.
GALLEYS.

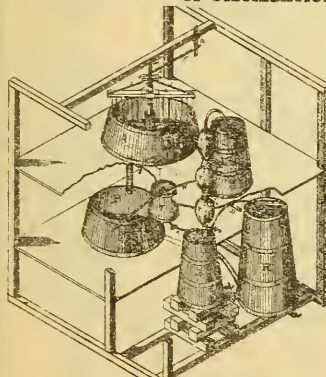


107,145, HORATIO WILLARD.
PETER TRUNZ.
LOCKS.

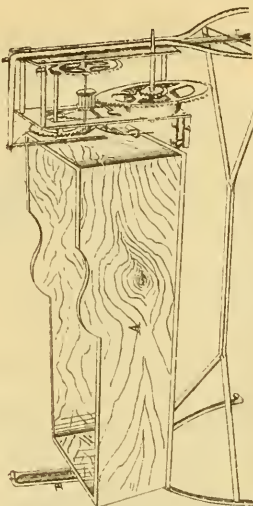


107,146, THOMAS S. WINN.
DRAWING-FRAMES.

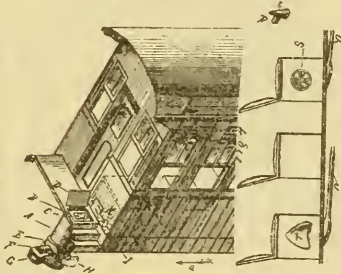
107,147, G. S. WILLIAMSON.
APPARATUS FOR AND PROCESS
OF DISTILLATION



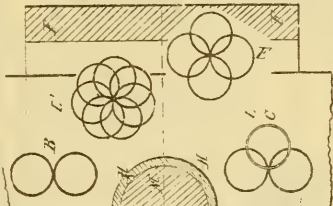
107,148, DARIUS ALGER.
AUTOMATIC CRADLE.



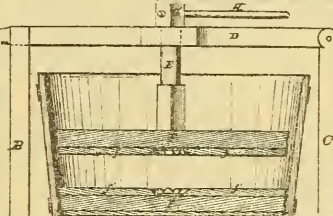
107,149, J. G. ALLEN.
RAILROAD-CAR HEATER.



107,150, JAMES S. BALDWIN.
METHOD OF INLAYING WOOD, &c.



107,151, CHARLES S. BANKER.
ALEXANDER PURDY.
WASHING-MACHINE.



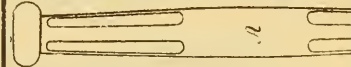
107,152, ALBERT BETTELEY.
WOOD-PAVEMENT.



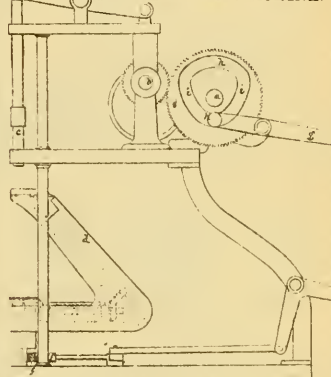
107,153, DANIEL M. BISSELL.
JEWELERS' TOOLS.



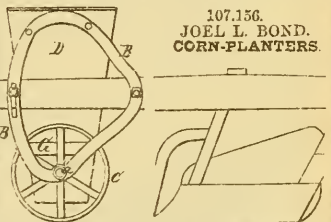
107,154, B. B. BLACKWELL.
SHOOTING-STICKS FOR PRINTERS



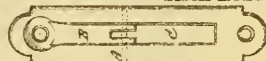
107,155, L. R. BLAKE.
SOLE SEWING MACHINE.



107,156, JOEL L. BOND.
CORN-PLANTERS.

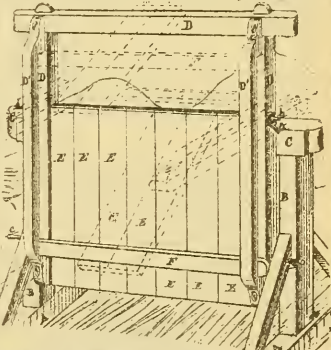


107,157, CHARLES S. BONNEY.
SASH-HOLDERS.

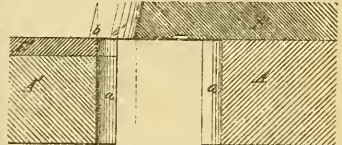


107,158, GUST. BOURGADE.
THE MANUFACTURE OF ALBUMEN.

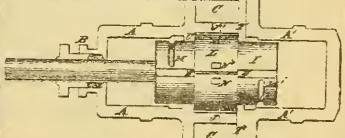
107,159, THOMAS H. BREED.
FLOOD-GATES.

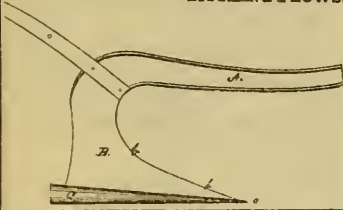
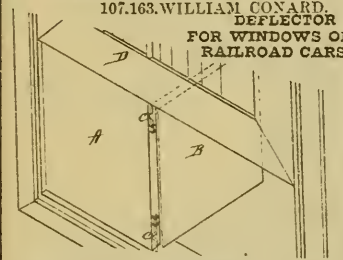


107,160, FRED. BEUSO.
DIES FOR HEADING BOLTS.

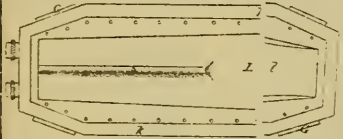
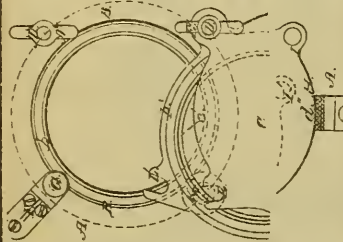


107,161, DAVID B. CALDWELL.
STEAM-ENGINES.

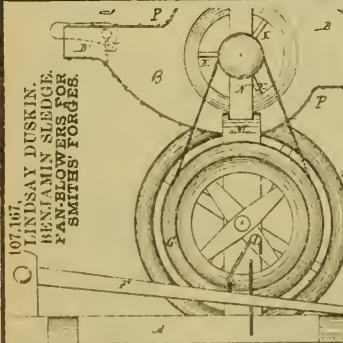
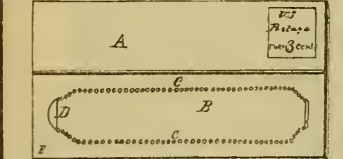
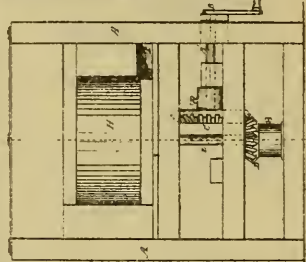
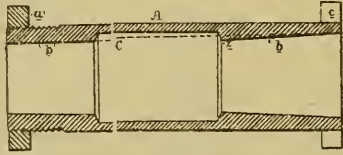
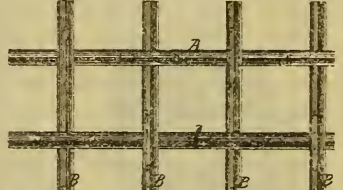
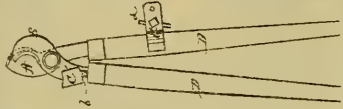
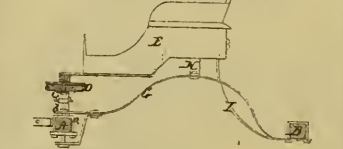
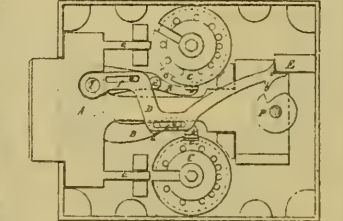
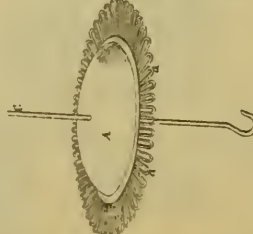
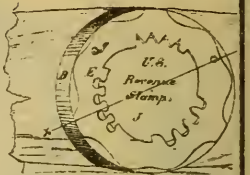
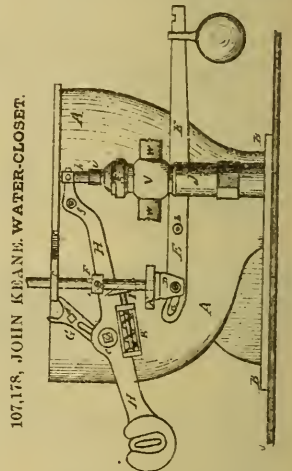


107,162, GEORGE CHAMBERLIN.
DITCHING-PLOWS.107,163, WILLIAM CONARD.
DEFLECTOR
FOR WINDOWS OF
RAILROAD CARS.

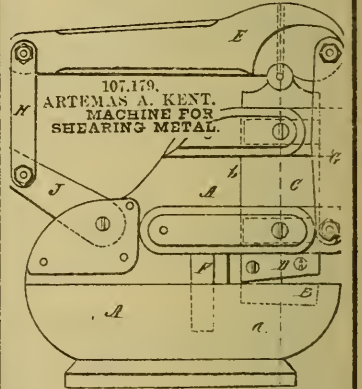
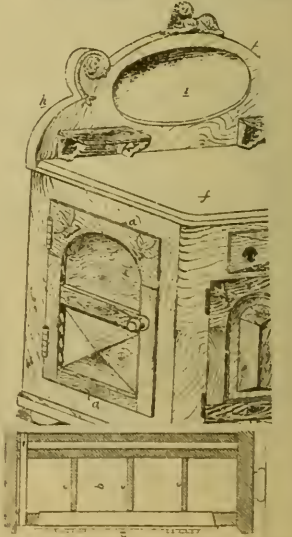
107,164, JAS. E. COX COFFINS.

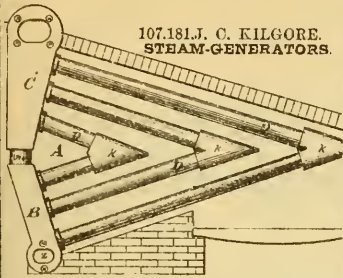
107,165, WM. DARLEY.
SIDE LIGHTS FOR VESSELS.

107,166, BIRAM O. DAVIS ENVELOPES.

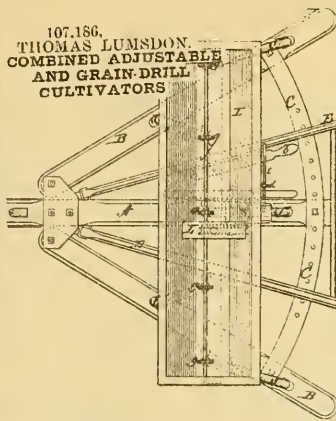
107,167, LINDSAY DUSKIN.
BENTAMIN SLEDGE.
HANDLE AND
SMITHS FORGES.107,168, WARREN W. DUTCHER.
LOOM-TEMPLE.107,169, ALFRED DUVAL.
MACHINES FOR WASHING AND
SCREENING ORES AND FER-TILIZERS.107,170, LEWIS R. DYE.
AXLE-BOX FOR CARRIAGES.107,171, JACOB G. FRICK.
WIRE-CLOTH FOR COAL-SCREENS.107,172, SAMUEL GAMWELL.
PRUNING-TOOL.107,173, D. R. GOULD.
WARREN S. WICKHAM.
SPRING CARRIAGES.107,174, HENRY GROSS.
JOSEPH L. HALL.
PERMUTATION LOCKS.107,175, NELSON HANCHETT.
WHIP-HOLDER.107,176, JOS. L. HANLEY.
LOCKS FOR
CURRING
STAMPS
UPON BARRELS.107,177, CLARENCE L. JENKINS.
TANNING LEATHER.

107,178, JOHN KEANE. WATER-CLOSER.

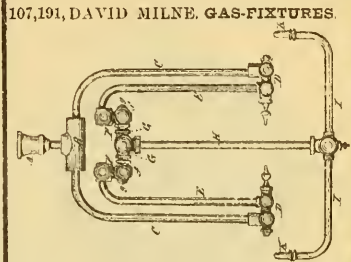
107,179, ARTEMAS A. KENT.
MACHINE FOR
SHEARING METAL.107,180, WILLIAM HIGH KERN.
THOMAS M. DAVIS.
REFRIGERATOR AND SIDEBOARD.



107,181. J. C. KILGORE.
STEAM-GENERATORS.



107,186.
THOMAS LUMSDON.
COMBINED ADJUSTABLE
AND GRAIN-DRILL
CULTIVATORS

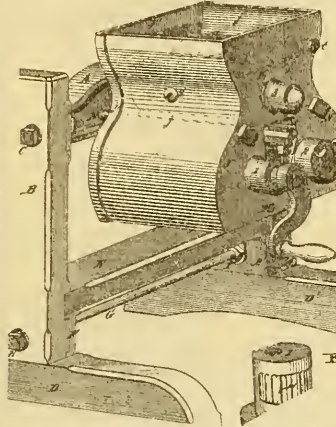


107,191. DAVID MILNE. GAS-FIXTURES.

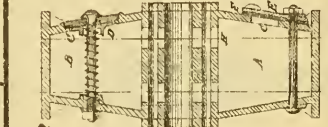


107,182.
GEO. W. KING.
BALANCES.

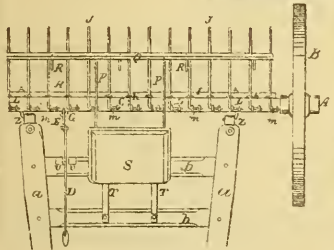
107,187. SAMUEL MALES.
IMPROVEMENT IN CIDER-MILLS.



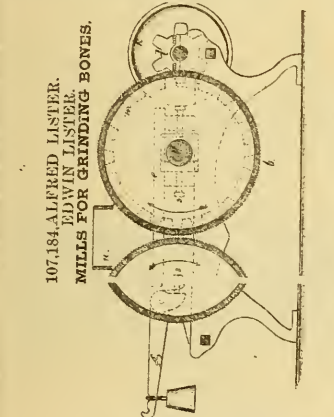
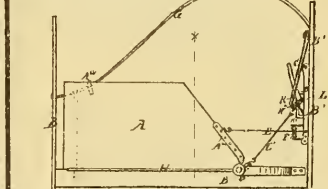
107,192. THOMAS J. MOOERS.
LUBRICATORS.



107,183. G. O. LACKEY.
HORSE HAY-RAKES.

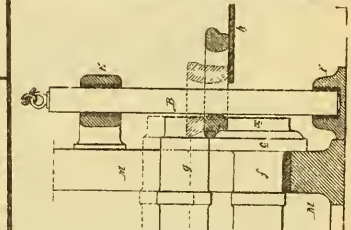


107,193. HALVOR H. NESTETU.
HARVESTERS.

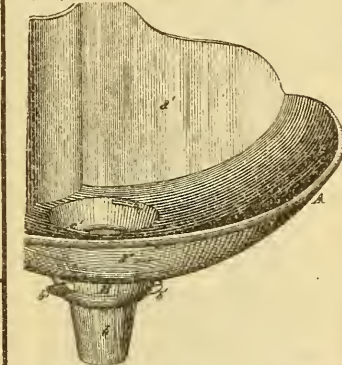


107,184. ALFRED LISTER.
EDWIN LISTER.
MILLS FOR GRINDING BONES.

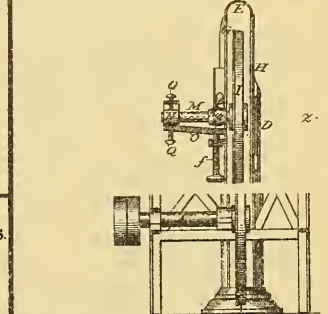
107,194. HIPPOLYTE ULYSSE PETIN.
MACHINES FOR ROLLING TIRES.



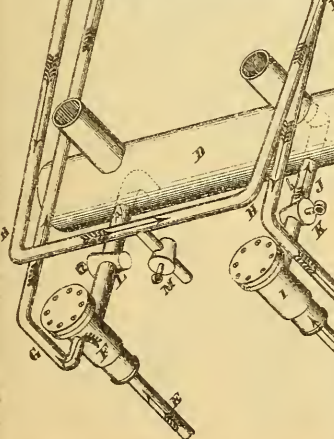
107,188. SAMUEL MALES. URINALS.



107,195. JOHN T. PLASS.
SAWING-MACHINE.



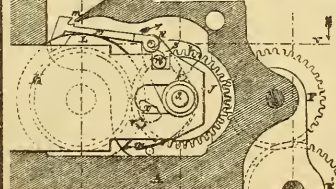
107,185. DANIEL LORDON.
FEED-WATER HEATER
FOR STEAM-BOILERS.



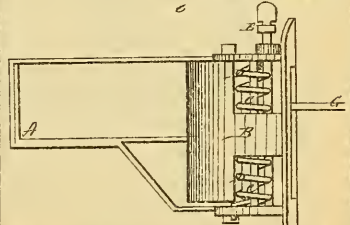
107,189. JULES MATHIEU.
CASE FOR BOTTLES AND GLASSES.



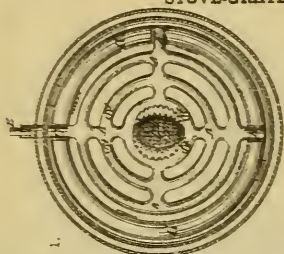
107,190. L. H. MILLER.
PERMUTATION-LOCKS.



107,196. ANDREW J. PRESCOTT.
CAR-COUPLING.



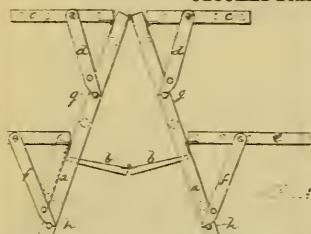
107,197, WILLIAM QUAY.
EZRA M. HINSDALE.
STOVE-GRATE.



107,198, EZRA RANSOM.
PACKED ROTATING VALVE-STEM



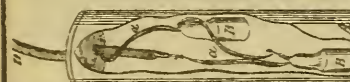
107,199, GEORGE W. RICHARDSON.
CLOTHES-DRIER.



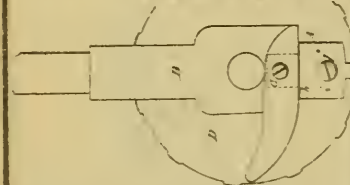
107,200, GEORGE L. SHUTTLEWORTH.
PAINT-ERUSH.



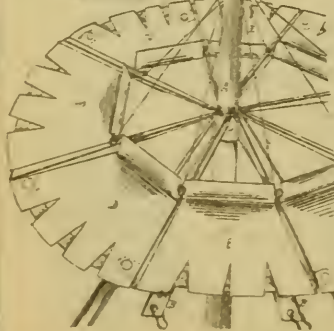
107,201, H. JULIUS SMITH.
TORPEDOES FOR OIL-WELLS.



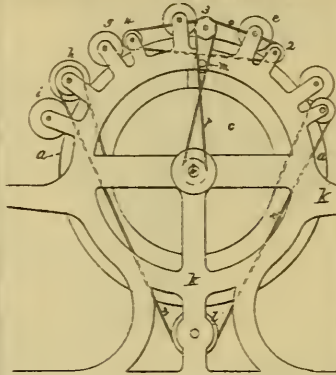
107,202, JAMES D. SMITH.
NUMBERING-MACHINES.



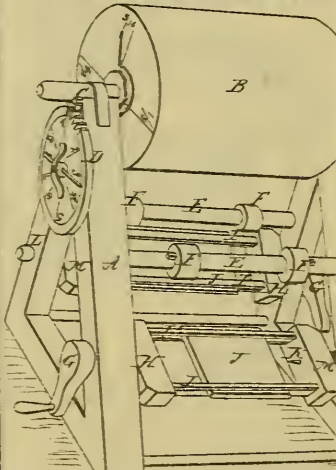
107,203, BARNES THOMPSON.
FEED-ATTACHMENT
FOR THRASHING
-MACHINES.



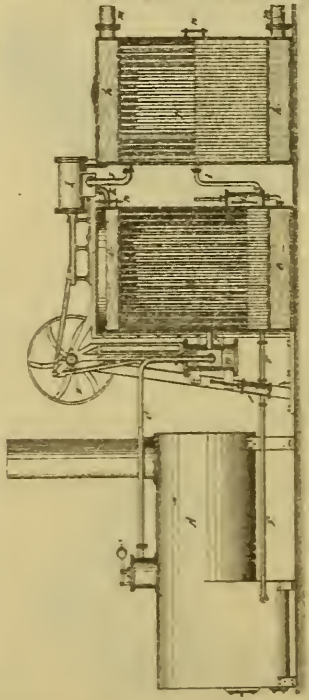
107,204, GEORGE THRESH.
CARDING-MACHINES.



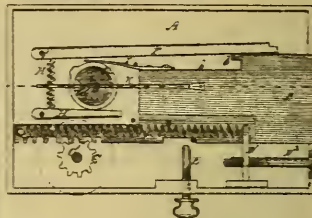
107,205, THOMAS WEEDEN.
THOMAS TRIBE.
CLOTH-MEASURING MACHINE.



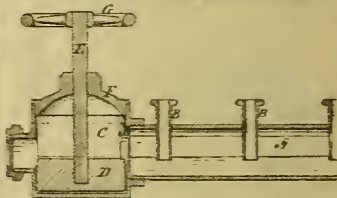
107,206, F. A. MORLEY
STEAM AND VAPOR-ENGINES



107,207, SAMUEL C. WEDDINGTON.
COMBINED LOCK AND LATCH



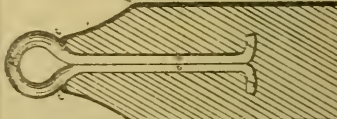
107,208, HENRY G. LUDLOW.
APPARATUS FOR THE MANUFACTURE
OF ILLUMINATING-GAS



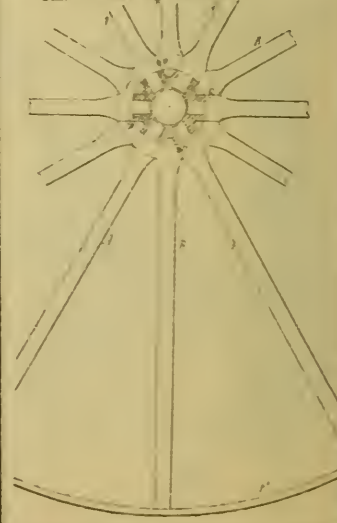
4,114, MATTW. ANDREW
ATTACHING KNOBS TO SPINDLES



4,115, DANIEL B. LACY
THOMAS T. LACY.
ISAAC A. LACY.
T. T. LACY.
WEIGHTS FOR SASHES, CLOCKS, &c.



4,116, J. D. SARVEN
CARRIAGE WHEEL



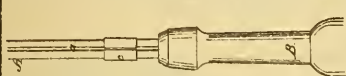
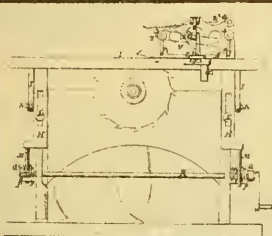
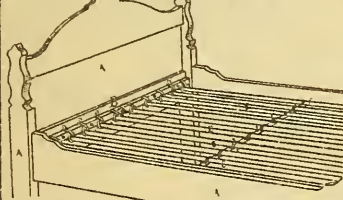
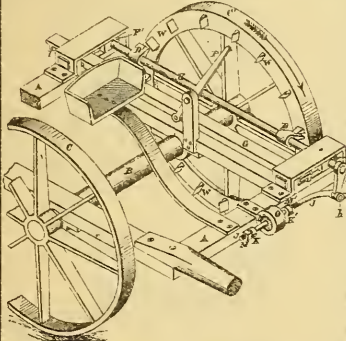
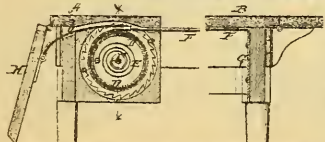
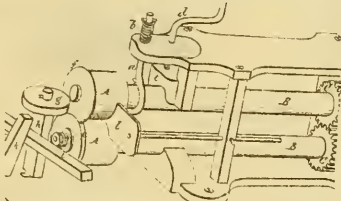
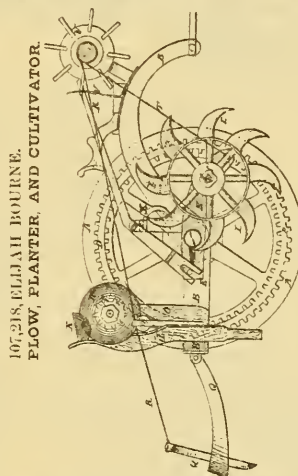
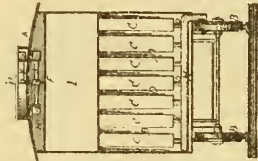
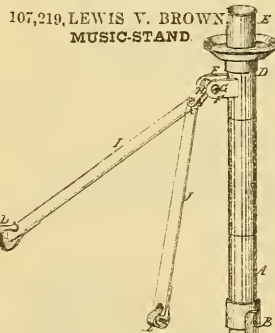
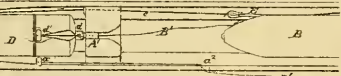
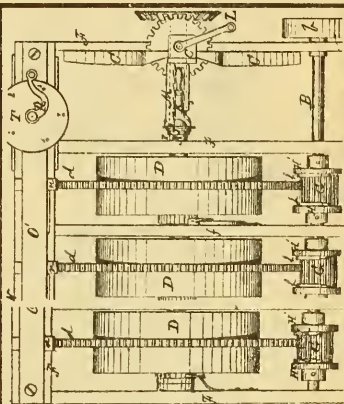
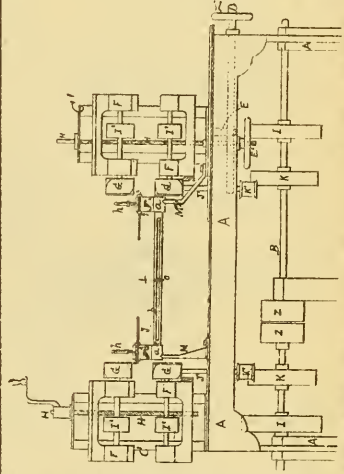
ILLUSTRATIONS OF PATENTS

ISSUED FROM

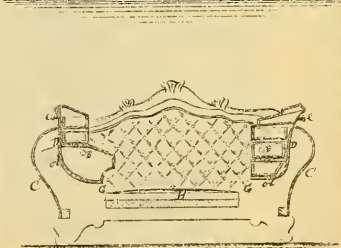
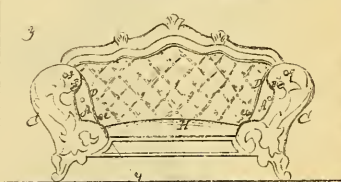
THE UNITED STATES PATENT OFFICE

SEPTEMBER 13, 1870.

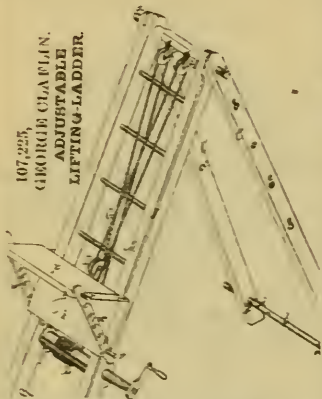
107,209, H. B. ADAMS. TAPER HOLDER.

107,210, FRANKLIN BABCOCK.
FREDERICK BABCOCK.
BLIND-FASTENERS.107,211,
JAMES T. BAGGS.
SAWING-MACHINE.107,212,
ALONZO B. BAILEY.
COFFIN-HANDLES107,213.
HENRY DWIGHT WRIGHT BAILEY.
SPRING BED-BOTTOM107,214, MOSES BALES. HARVESTERS.
W. P. BALES.107,215, MELVIN BANCROFT.
EXTENSION TABLE.107,216, J. BLOOD.
MACHINES FOR MAKING FLANGED
AND BEADED HOOPS.107,217, A. BOOTH.
REFRIGERATING CAR.107,218, ELLIAB BOURNE.
FLOW PLANTER, AND CULTIVATOR.107,219, LEWIS V. BROWN.
MUSIC-STAND107,220, HUGO CARSTAEDT.
SHUTTLE FOR LOOMS.107,221, JOHN M. CAYCE.
MOTIVE-POWER.107,222, FRANK G. CHAPMAN.
MACHINES FOR TENONING
WINDOW-SASH107,223, MATTHEW CHAPMAN.
HANDLES FOR TABLE AND
OTHER CUTLERY.

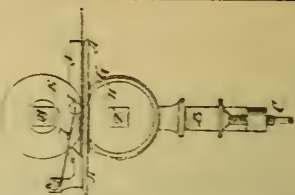
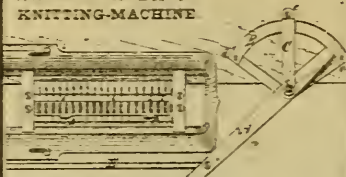
107,224, JULIUS CIGSOR. SOFA.



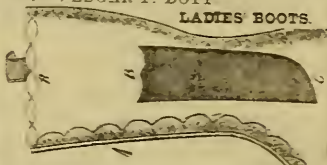
107,225.
GEORGE CLAFAN.
ADJUSTABLE
LIFTING-LADDER.



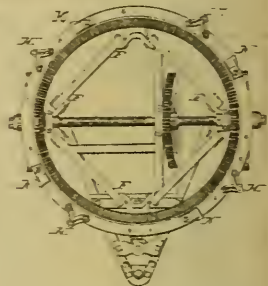
107,230. OWEN DAVIS
KNITTING-MACHINE.



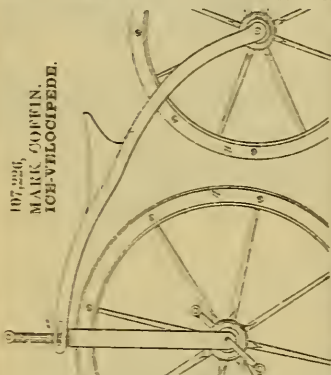
107,231. EDGAR F. DOTY
LADIES' BOOTS.



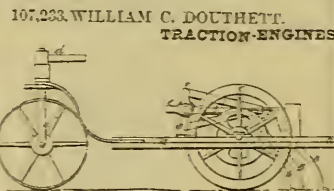
107,237. MASSENA B. ERSKINE.
MOUNTED HORSE-POWER.



107,226.
MARK COMIN.
ICE-VELOCIPÈDE.



107,232. JOSEPH V. DOUGLAS
ROOFING-COMPOUND.



107,233. WILLIAM C. DOUTHETT.
TRACTION-ENGINES.

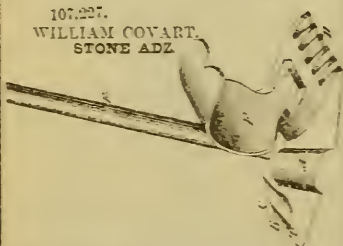


107,234.
A. E. DUPAS.
GAS-BURNERS.

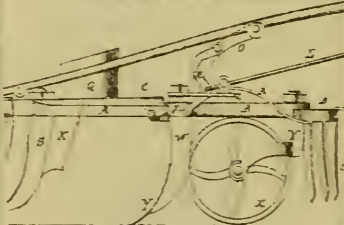
107,235. JAMES J. ESSEX.
ELASTIC NASAL PLUGS.



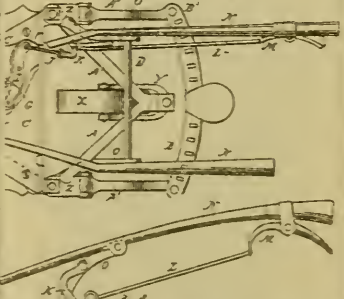
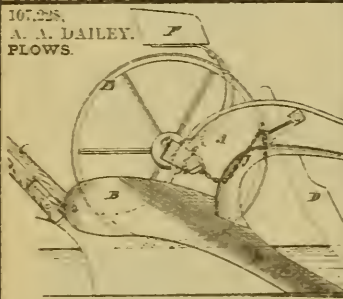
107,237.
WILLIAM COVART.
STONE ADZ.



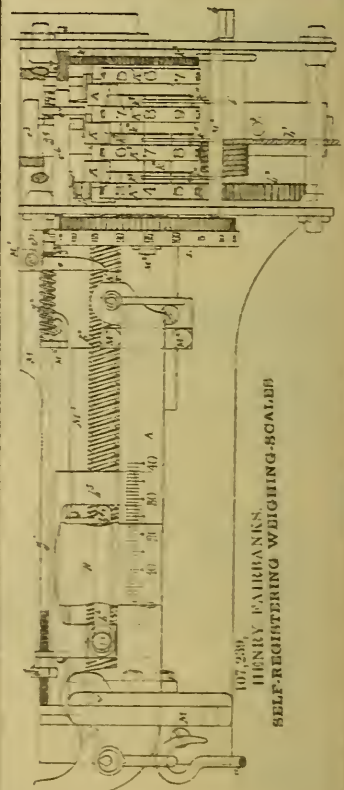
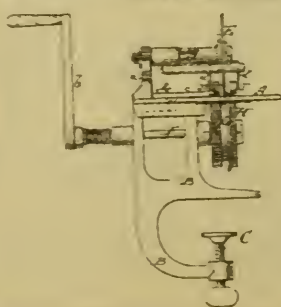
107,235. NATHAN EARLYWINE.
PLANTER AND CULTIVATOR.



107,228.
A. A. DAILEY.
PLOW.

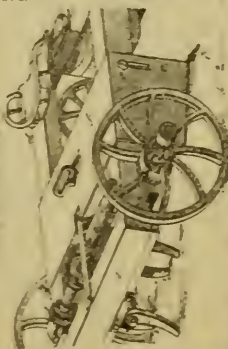


107,236. WILLIAM EBERHARD.
CARPET-RAG CUTTER.



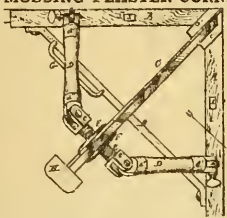
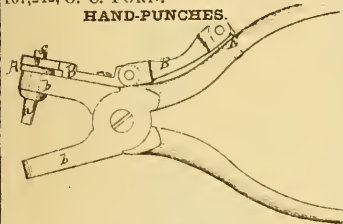
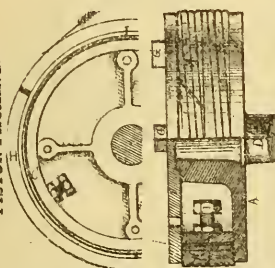
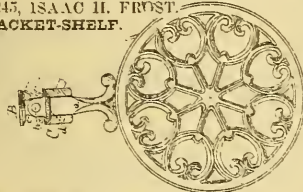
107,239.
HENRY FAIRBANKS.
SELF-REGISTERING WEIGHING-SCALES.

107,229.
COOK DARNING.
POTATO DIGGERS.

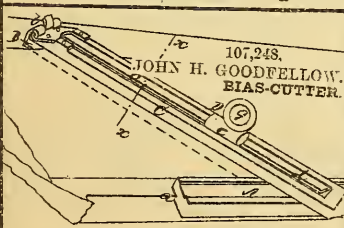
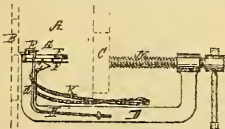
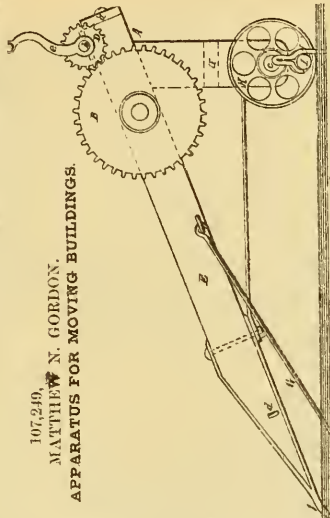


107,240. HENRY FAIRBANKS.
RECORDING WEIGHING-SCALES.

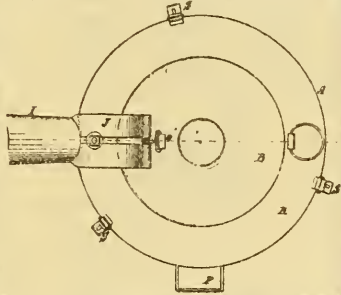
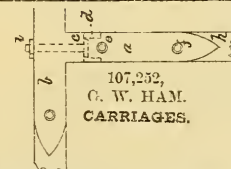
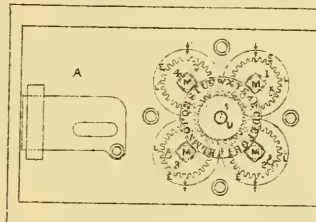
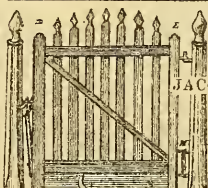
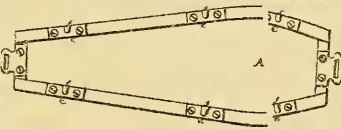
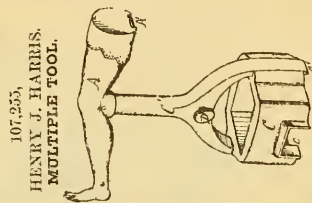
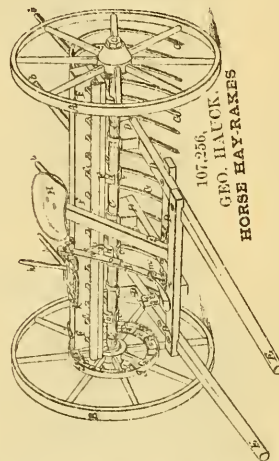
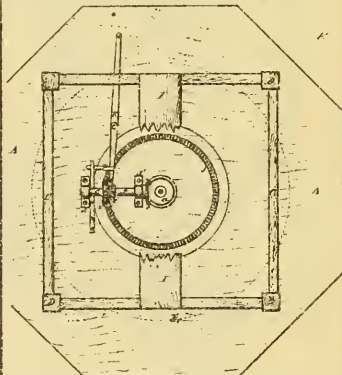


107,241, SMITH FERRIS. DEVICES FOR
MOLDING PLASTER CORNICES107,242, O. C. FORD.
HAND-PUNCHES.107,243,
WALTER J. FORD.
PISTON-PACKING.107,244, GEORGE WAKEFIELD FOX.
MANNER OF TREATING COD-LIVER
AND CASTOR-OILS.107,245, ISAAC H. FROST.
BRACKET-SHELF.107,246,
HENRY H. GALE.
GALLEY-RESTS

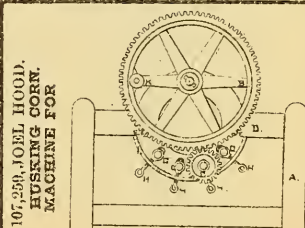
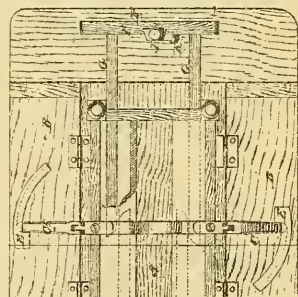
107,247, FRANCIS GLASSER. CLAMP.

107,248,
JOHN H. GOODFELLOW.
BIAS-CUTTER.107,249,
MATTHEW N. GORDON.
APPARATUS FOR MOVING BUILDINGS.

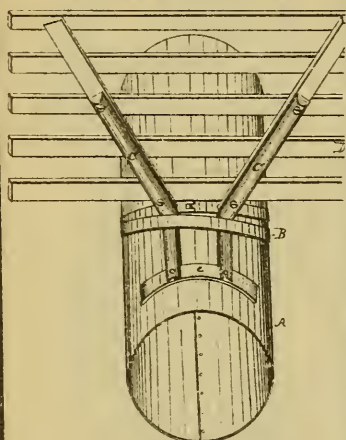
107,250, WML H. GREEN. MARKING-POTS.

107,251, MARTIAL HAINQUE.
PERMUTATION LOCKS.107,252,
G. W. HAM.
CARRIAGES.107,253, WILLIAM HAMILTON.
LID-FASTENINGS FOR
BURIAL-CASKETS.107,254,
JACOB H. HARNLY.
GATES.107,255,
HENRY J. HARRIS.
MULTIPLE TOOL.107,256,
GEO. HALCK.
HORSE HAY-RAKES107,257, WILLIAM H. HENDERSON.
WALTER S. JONES.
REVOLVING TABLE.

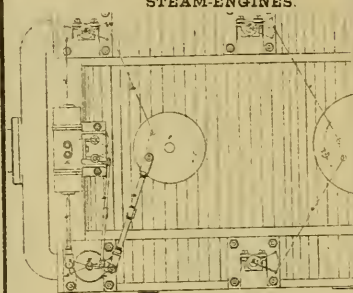
107,258, GEORGE H. HENKEL. TABLE.

107,259, JOEL HOOD.
HUSKING CORN.
MACHINE FOR

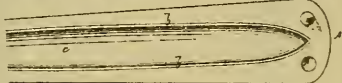
107,260, FEL BEN HOOVER.
STOVE-PIPE BAND AND SHELF



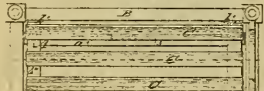
107,263, WILLIAM INGLIS.
JOHN FREDERICK SPENCER.
STEAM-ENGINES.



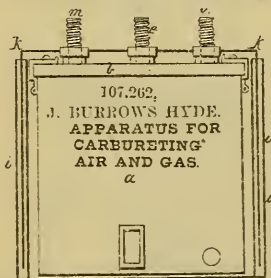
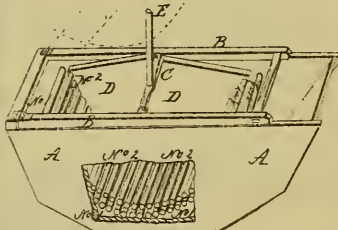
107,266, SAMUEL B. JEROME.
MOLDS FOR DRYING CIGAR-FILLINGS



107,261, DARLINGTON HOSKINS.
BED-BOTTOM

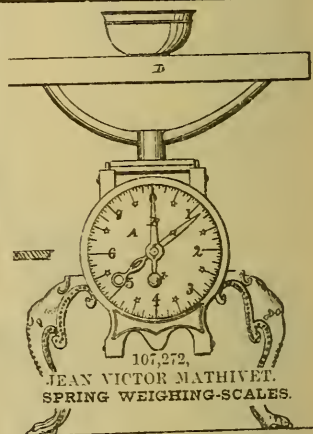
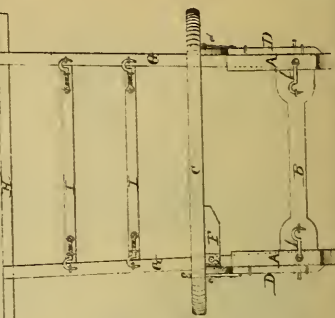
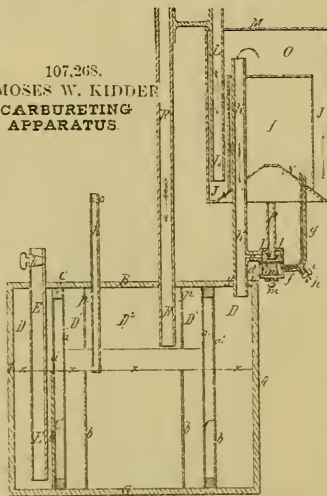


107,267, POWELL JOHNSON.
WASHING-MACHINE



107,262,
J. BURROWS HYDE.
APPARATUS FOR
CARBURETING
AIR AND GAS.

107,268,
MOSES W. KIDDER
CARBURETING
APPARATUS

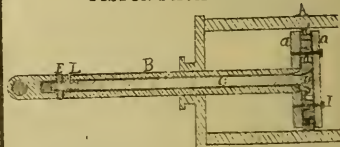


107,272,
JEAN VICTOR MATHIVET.
SPRING WEIGHING-SCALES.

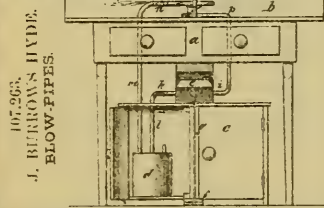
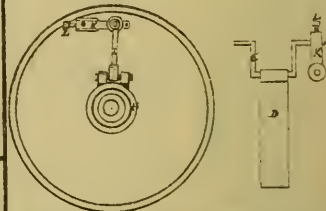
107,273,
JEAN V. MATHIVET.
REVERSIBLE
CENTER-PINION
FOR WATCHES



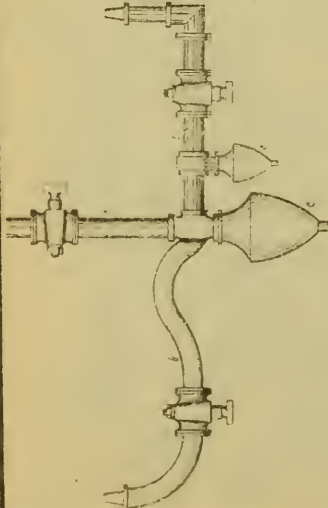
107,274, FRANKLIN McCONNELL.
PISTON-PACKING.



107,275, JOHN G. McCORMICK.
TIGHT AND LOOSE PULLEY.



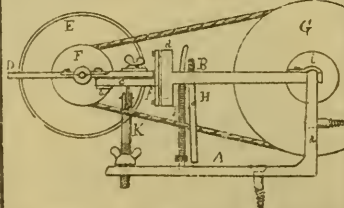
107,264, J. BURROWS HYDE.
TRAP-ATTACHMENT
FOR GAS-FIXTURES.



107,269, ANDREW ^{his} LEWIS. ^{mark.} HARROWS

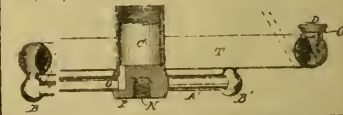


107,270, JOHN MALLORY.
SAW-DRESSING MACHINE

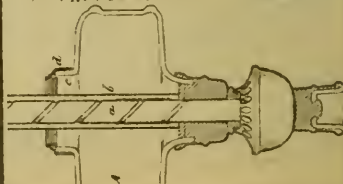


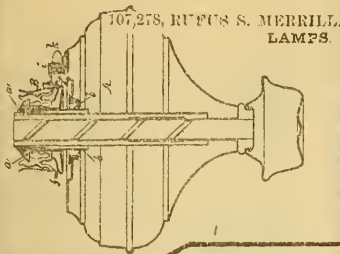
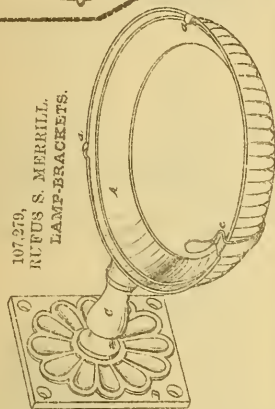
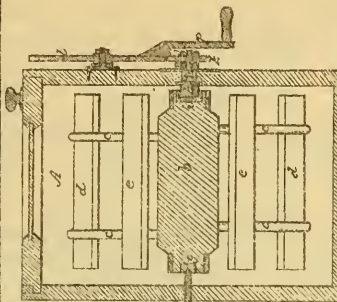
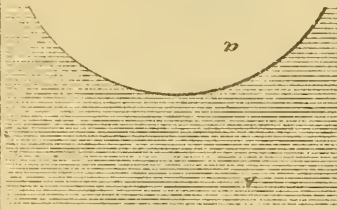
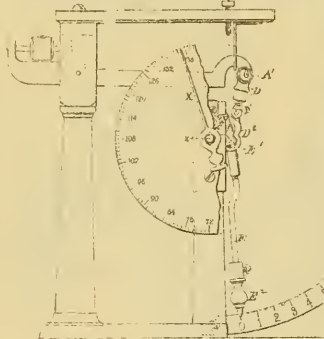
107,271, WM. A. SCHAFFNER.
JNO. F. MARTIN.
IRONING-TABLE

107,276, FRANCIS McDANIELS. LAMPS

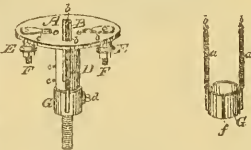
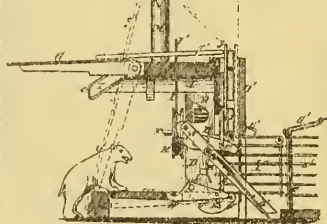
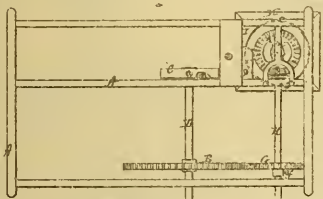
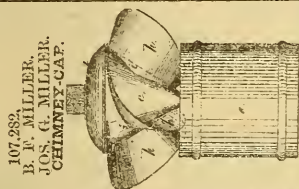
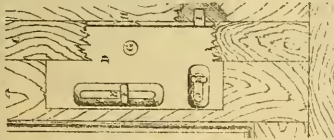
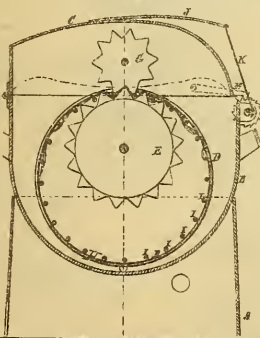


107,277, RUFUS S. MERRILL. LAMPS.

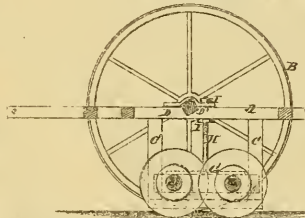
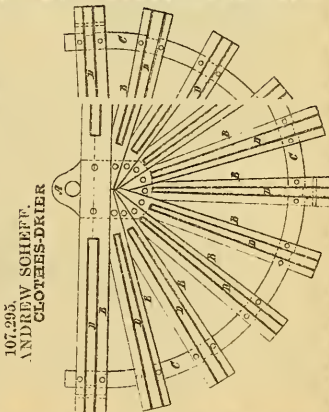
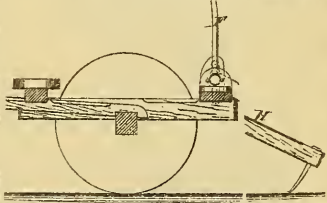


107,278, RUFUS S. MERRILL.
LAMP.107,279,
RUFUS S. MERRILL.
LAMP-BRACKETS.107,285, NORMAN O'DONNELL.
CUTTING OR LAP-BOARD.107,286, HARVEY LIN PADDOCK.
REGISTERING WEIGHING-SCALES.

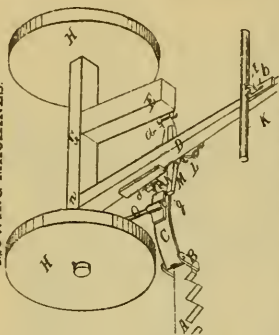
107,291, JOHN RICH. LATHE-CHUCK.

107,292, JAMES H. RICHARDSON.
ANIMAL-TRAP.107,280, SOLOMON MICKLEY.
CORN-PLANTER.107,281, A. D. MILLARD.
SASH-HOLDERS.107,282,
B. F. MILLER,
JOS. G. MILLER,
CHINNEY-CAF.107,283, ALFRED L. D. MOORE.
WASHING MACHINE.

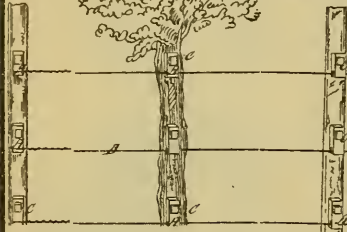
107,284, JOHN MOYERS, CHURNS.

107,287 DR. JNO. W. PENCE.
EARTH-PULVERIZER.107,288, CHAUNCEY V. PETTIBONE.
THREAD-SPOOLS.107,289,
JOEL PUTNAM.
SHOE.107,290, GEORGE A. REYNOLDS.
SEAMING THE ENDS OF
METALLIC ROOFING-PLATES.107,294, ELLI SAWYER.
MARKING ATTACHMENT
TO CORN-PLANTERS.107,295,
ANDREW SCHIEFF.
CLOTHES-DRYER.

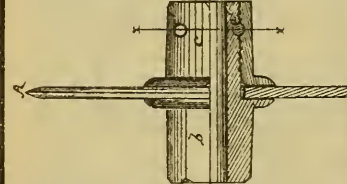
107,296,
HENRY F. SHAW.
MOWING-MACHINES.



107,297, PHINEAS L. SHERMAN. FENCES.



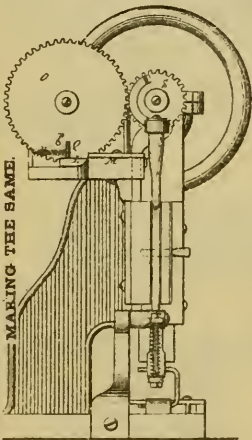
107,298, HENRY M. SKINNER. COLTERS.



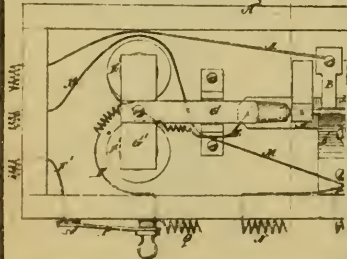
107,299, P. J. SKINNER. LAMP-WICKS.



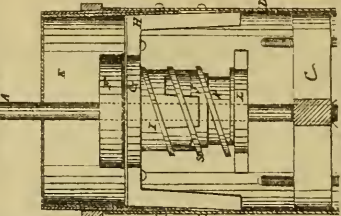
107,300, S. N. SMITH.
SHOE STAY STOCK AND MACHINE FOR
MAKING THE SAME.



107,301, JAMES P. SNYDER.
AUTOMATIC CIRCUIT-CLOSER FOR
ELECTRO-MAGNETIC BURGLAR-ALARMS.



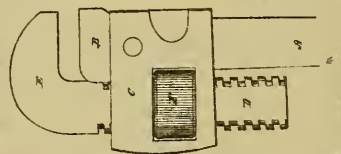
107,302, PETER SOULE. CORN-PLANTERS.



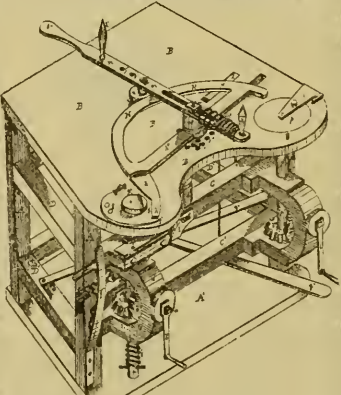
107,303, JOSEPH B. STEARNS.
ATTACHING INSULATORS
TO TELEGRAPH-POLES.



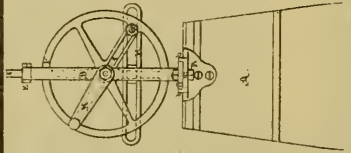
107,304, DANIEL C. STILLSON.
WRENCHES.



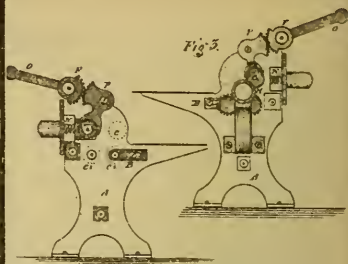
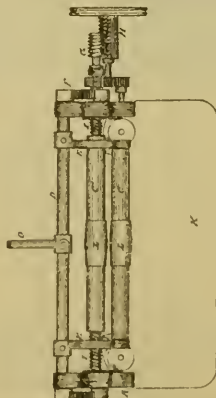
107,305, JAMES SUGDEN. MACHINES
FOR BENDING RAKE-TEETH.



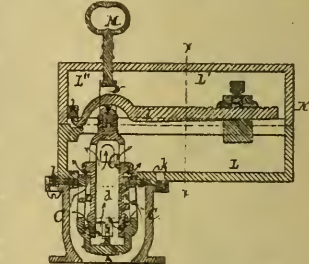
107,306, JOHN G. TALBOT. CHURNS.



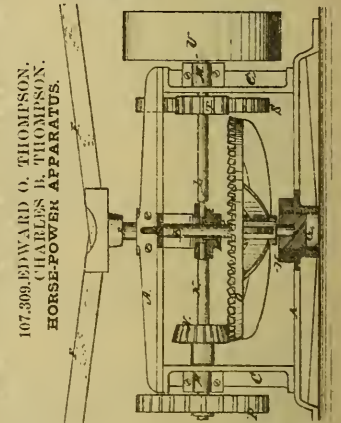
107,307, ISAAC TEN EYCK.
JOHN O. REILLEY.
CIGAR-MACHINES.



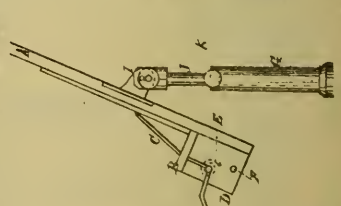
107,308, NICHOLAS THOMAS.
SAFETY-VALVE.



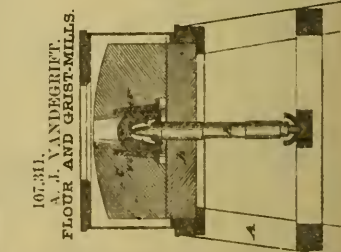
107,309, EDWARD O. THOMPSON.
CHARLES B. THOMPSON.
HORSE-POWER APPARATUS.



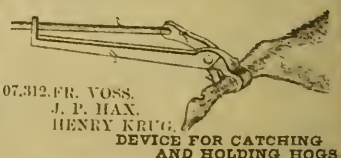
107,310, WM. J. THOEN.
BOOK-HOLDERS.



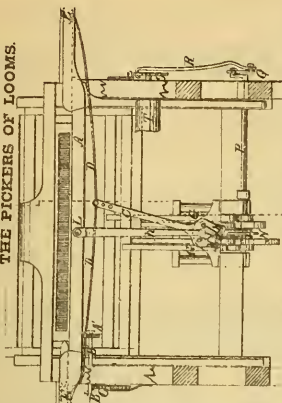
107,311,
A. J. VANDEGRIFT.
FLOUR AND GRIST-MILLS.



107,312, FR. VOSS.
J. P. MAX.
HENRY KRUG.
DEVICE FOR CATCHING
AND HOLDING HOGS.



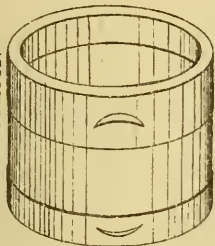
107,313, E. A. WAREHAM.
WM. H. WAGONER.
MECHANISM FOR OPERATING
THE PICKERS OF LOOMS.



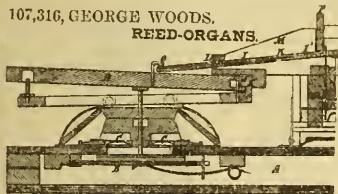
107,314, WILLIAM P. WENTWORTH.
SNOW-SHOVELS.



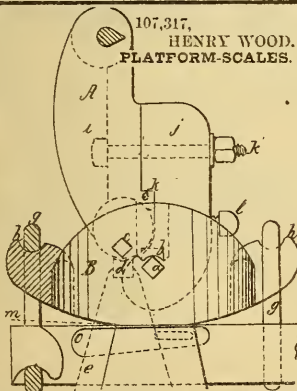
107,315,
SAMUEL WILSON.
CHEESE-HOOP.



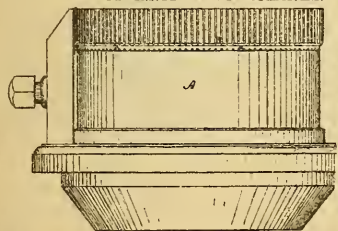
107,316, GEORGE WOODS.
REED-ORGANS.



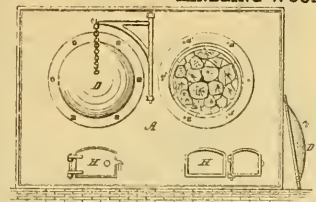
107,317,
HENRY WOOD.
PLATFORM-SCALES.



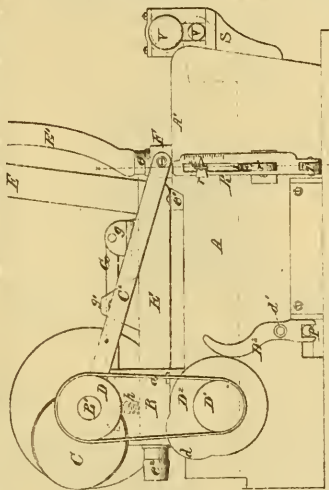
107,318, CHARLES H. YOUNG.
CONSTRUCTION OF CYLINDERS
OF KNITTING-MACHINES.



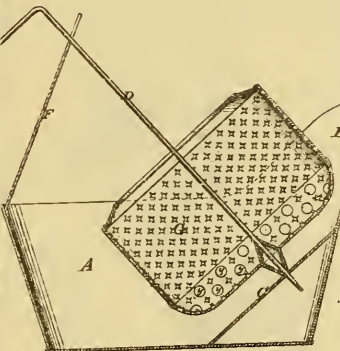
107,319, MERRITT T. ARNOLD.
KINDLING-WOOD.



107,320, JOHN T. ASHLEY.
PAPER-FEEDING APPARATUS.

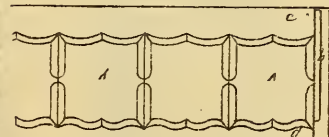


107,321, M. B. ATKINSON.
POTATO AND FRUIT PEELERS.



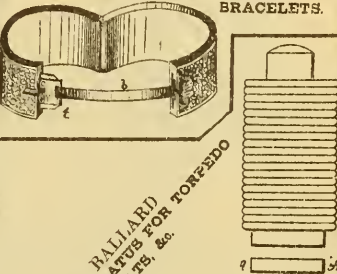
107,322, JAMES E. ATWOOD.
REFINING IRON AND STEEL.

107,323, CLARK AVERY.
SIDING FOR BUILDINGS.

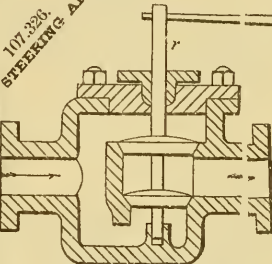


107,324, B. T. BABBITT.
PROCESS OF OBTAINING GLYCERINE
FROM SOAP-MAKERS' SPENT LYES.

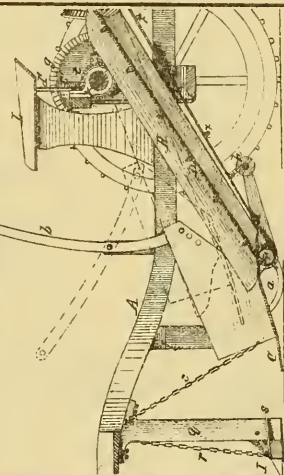
107,325, WM. H. BALL.
THOMAS BARNARD.
BRACELETS.



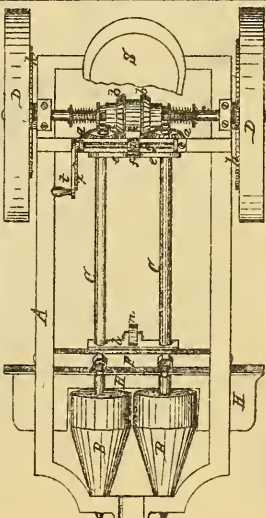
107,326, J. A. BALLARD.
STEERING APPARATUS FOR TORPEDO
BOATS, &c.

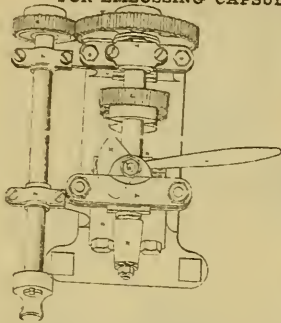
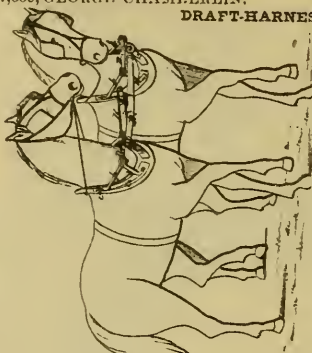
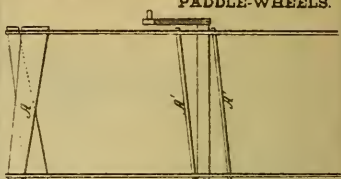
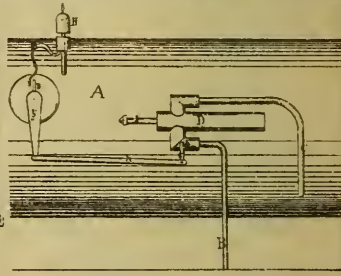


107,327, LEANDER BERRY. POTATO-DIGGERS.

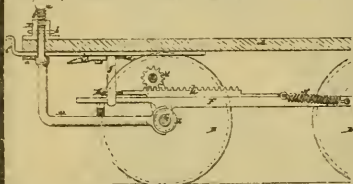
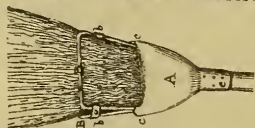
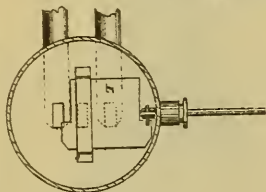
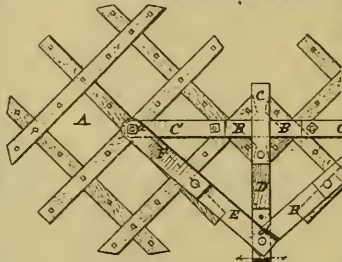
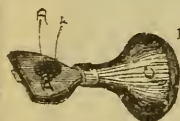
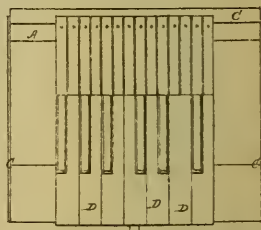
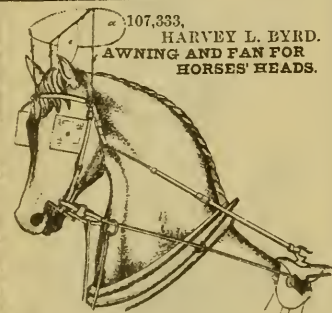
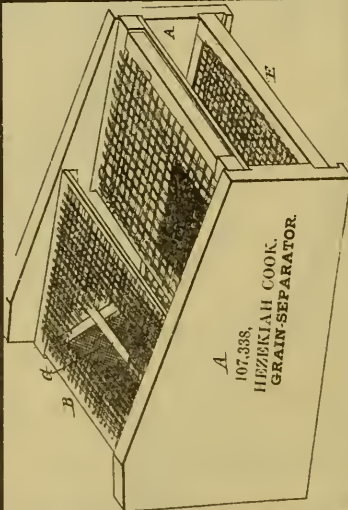
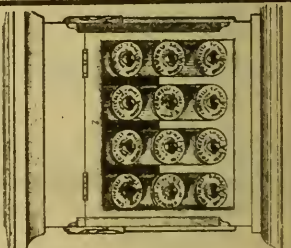


107,328, LEANDER BERRY.
VINE-FULLERS FOR POTATO-DIGGERS.

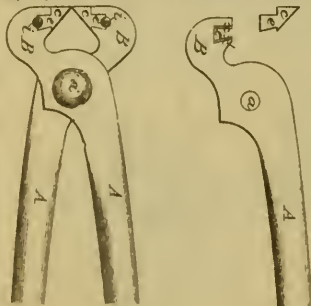
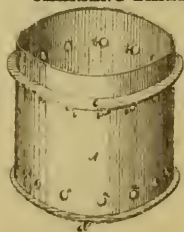


107,329, W. BETTS MACHINES
FOR EMBROSSING CAPSULES107,335, GEORGE CHAMLERLIN.
DRAFT-HARNESS107,340, MATTHEW A. CROOKER.
PADDLE-WHEELS.107,341, GEORGE W. DARBY.
AMOS S. MOON.
WATER-REGULATOR.

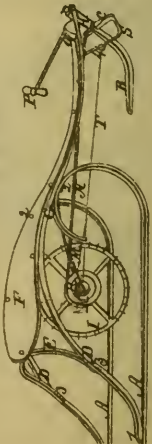
107,330, JOHN BEVAN. CAR-STARTERS.

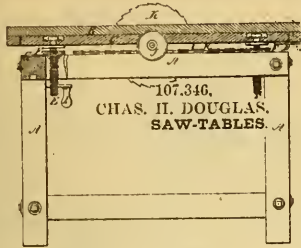
107,336,
EUGENE CHAPMAN.
BROOM OR MOP-CLAMP.107,331, JOHN A. BRADSHAW.
WM. H. BROWN.
DARIUS WHITED.
POWER-METERS.107,337, GEORGE COLLINS.
ROTARY HARROWS.107,342, WILLARD G. DAY.
TRANSFOSING MECHANISM
FOR ORGANS.107,332, T. C. BUSH.
BUTTON-HOLE
CUTTER107,333,
HARVEY L. BYRD.
AWNING AND FAN FOR
HORSES' HEADS.107,338,
HEZEKIAH COOK.
GRAIN-SEPARATOR.107,343, IRA DIMOCK.
SPOOL SHOW-CASE.107,344,
JAMES DINGMAN.
HARROWS.

107,334, FRANK CAREW. WIRE-CUTTER.

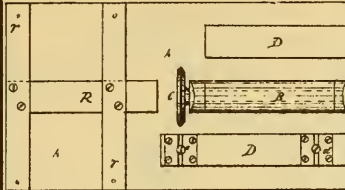
107,339, JACOB D. COPENHAVER.
CHARRING BARREL-HEADS.

107,345, C. H. DOUGLAS. SLEDS.

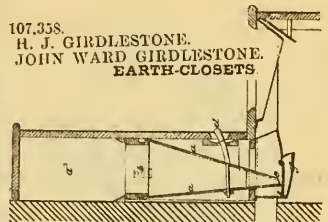




107,346.
CHAS. H. DOUGLAS.
SAW-TABLES.

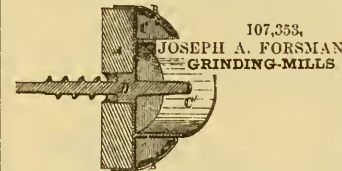
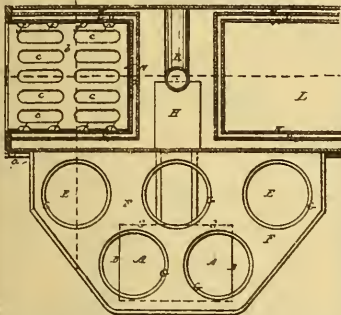


107,352. MAURICE FITZGIBBONS.
WOOD PAVEMENT.



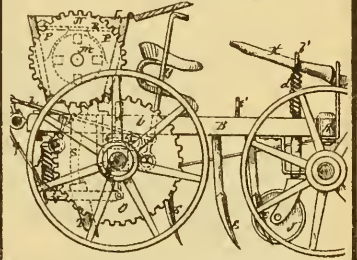
107,358.
H. J. GIRDLESTONE.
JOHN WARD GIRDLESTONE.
EARTH-CLOSETS.

107,347. EBEN EDWARDS.
FURNACE AND RANGE.

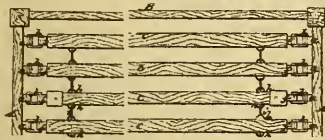


107,353.
JOSEPH A. FORSMAN.
GRINDING-MILLS.

107,359. JOHN GIRE. COMBINED
CULTIVATOR AND GRAIN-DRILL.

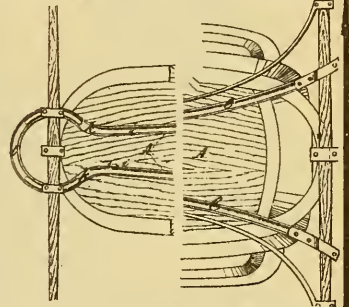


107,348. A. H. FATZINGER.
SPRING-BED BOTTOM.

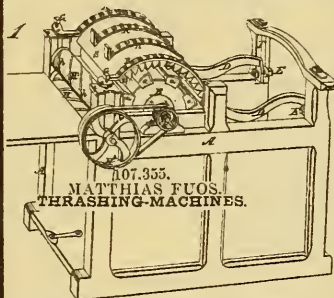
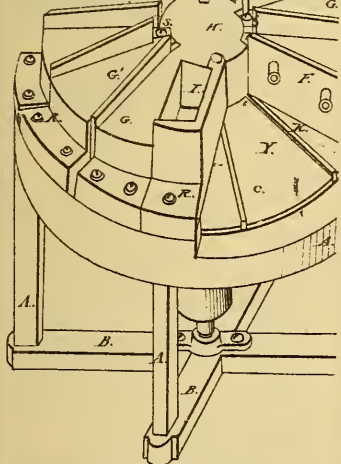


107,354.
ALBERT L. FRANCE.
SHUTTER-
FASTENERS.

107,360. SIMON P. GRAHAM CARRIAGES.

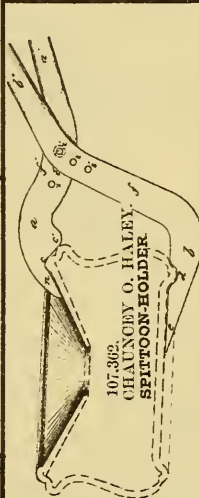
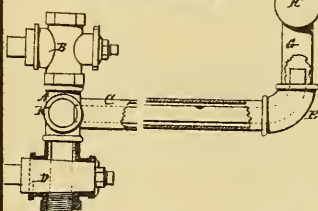


107,349. WM. R. FEE.
MACHINES
FOR HULLING
COTTON-SEED.



107,355.
MATTHIAS FUOS.
THRASHING-MACHINES.

107,356. BENJAMIN GARVIN.
RUSH J. PETTIBONE.
TUBULAR GRATES.

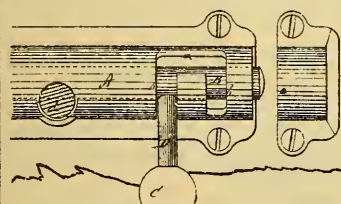


107,362.
CHAUNCEY O. HALEY.
SPITTOON-HOLDER.



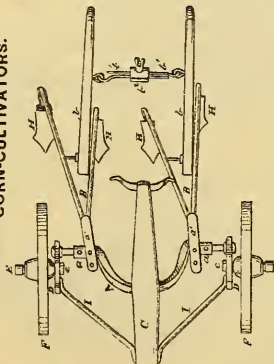
107,361. GEORGE W. GRAVES.
HARNESS-PAD.

107,350. HENRY FEYH. LOCKING-BOLTS.

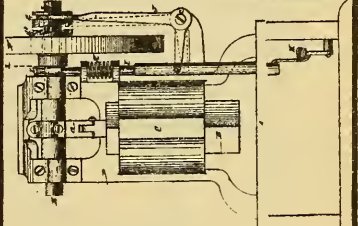


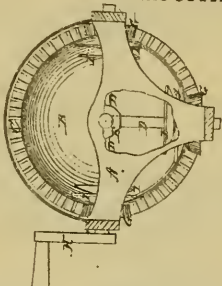
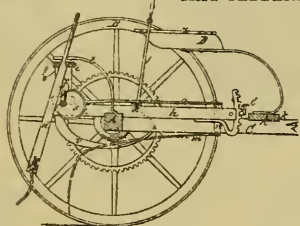
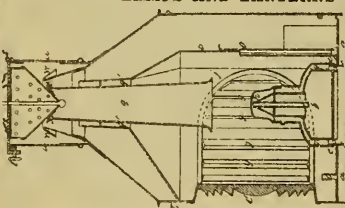
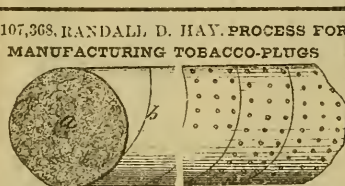
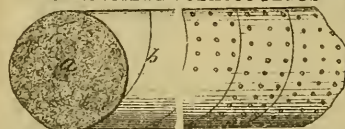
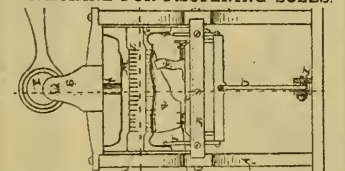
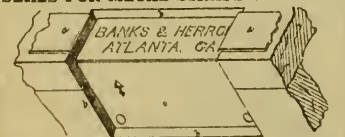
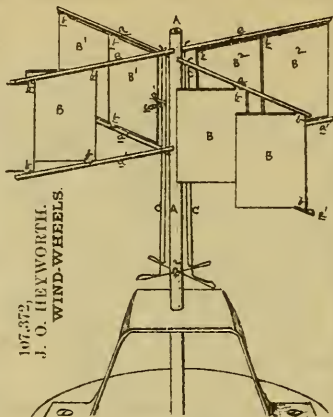
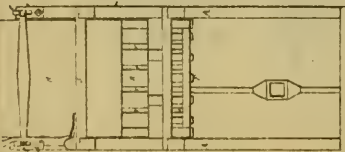
107,351. S. B. FITCH.
SHEET-METAL CUTTING-MACHINE.

107,357. WM. GILMAN.
CORN-CULTIVATORS.

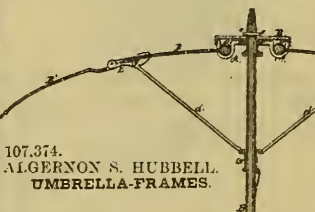
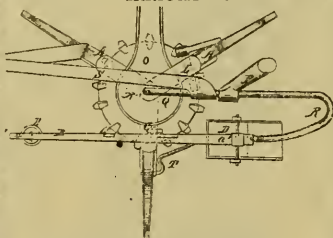


107,363. ALBERT HAMLIN.
TRIP MOTION FOR PRESSES. &c.

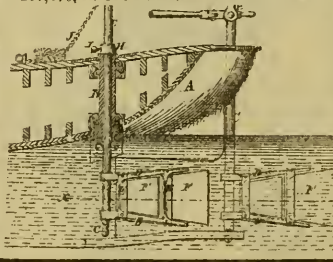


107,364. THOMAS HARTLEY.
MEAT-CUTTER107,365. MOSES B. HARVEY.
HAY-TEDDERS.107,366. WM. HARVIE.
LAMPS AND LANTERNS107,367. FRANCIS H. HATCH
B. R. HAWLEY.
PRESERVING MEAT.107,368. RANDALL D. HAY. PROCESS FOR
MANUFACTURING TOBACCO-PLUGS107,369. C. H. HELMS.
MACHINE FOR FASTENING SOLES.107,370. JAMES P. HERRON.
SEALS FOR METAL STRAPS ON BOXES.107,371. JAMES P. HERRON.
COTTON AND HAY-PRESSES.107,372.
J. O. HUNWORTH.
WIND-WHEELS.

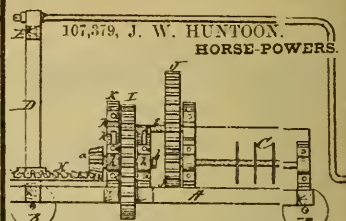
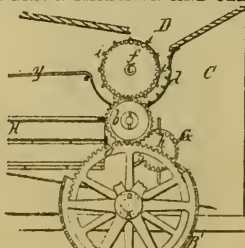
107,373. SUSPENDED.

107,374.
ALGERNON S. HUBBELL.
UMBRELLA-FRAMES.107,375. WILLIAM W. HULL.
IRRIGATING-MACHINES.

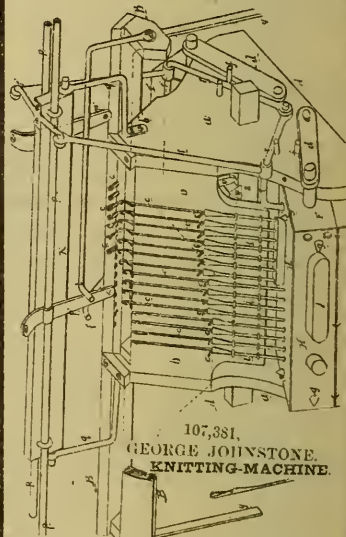
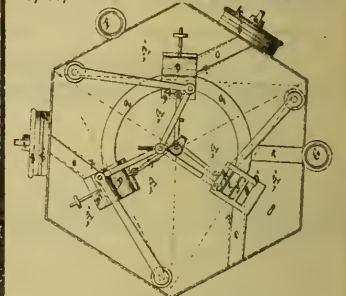
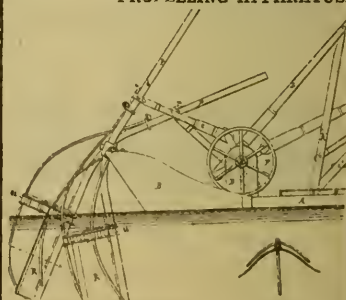
107,376. R. HUNTER. PROPELLERS



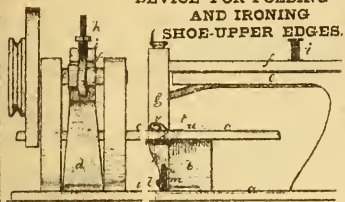
107,377. CANCELED.

107,378. JAMES W. HUNTOON.
COMBINED CORN-HUSKER AND SHELLER
AND GRAIN-THRASHER AND CLEANER.107,379. J. W. HUNTOON.
HORSE-POWERS.

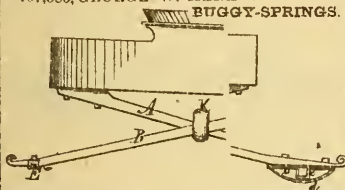
107,380. HYAM J. HYAMS. GAS-METERS.

107,381.
GEORGE JOHNSTONE.
KNITTING-MACHINE.107,382. WM. H. JONES.
ROOFING COMPOSITION.107,383. WILLIAM B. JUDSON.
SPRING MATTRESS107,384. RICHARD KEARNEY.
PROPELLING APPARATUS.

107,385, CHARLES A. KEITH.
JEREMIAH KEITH.
THOMAS K. KEITH.
DEVICE FOR FOLDING
AND IRONING
SHOE-UPPER EDGES.



107,386, GEORGE W. KENAN.
BUGGY-SPRINGS.



107,387, W. T. KOSINSKI.
COATING FOR STEAM PIPES, BOILERS.

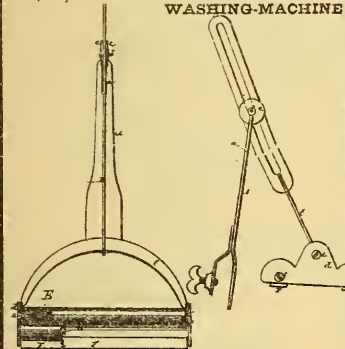


107,388, G. M. LANE.
PAPERING-MACHINES

107,389, T. LAWRENCE
HAT AND CAP BRACKET.



107,390, REUBEN LIGHTHALL.
WASHING-MACHINE



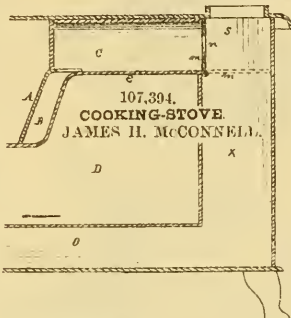
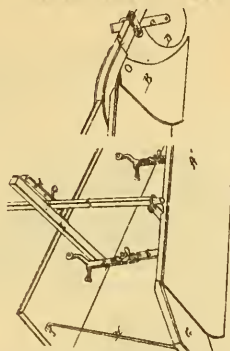
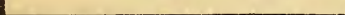
107,391, CHARLES M. LINDSAY.
SCREW-CLAMP FOR PIANO-PINS.



107,392, ANDREW JACKSON LUFFBARRY, JR.
OUTRIGGERS FOR ROW-BOATS.

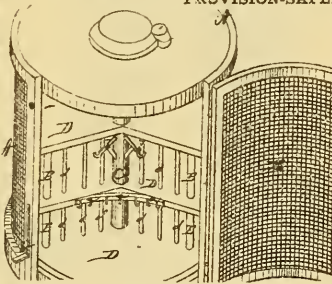


107,393, JOHN H. MARTIN.
CLINTON D. BRADSHAW.
DITCHERS AND GRADERS.

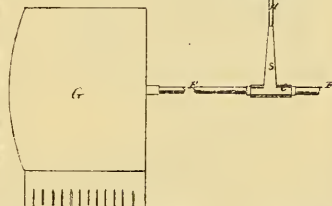
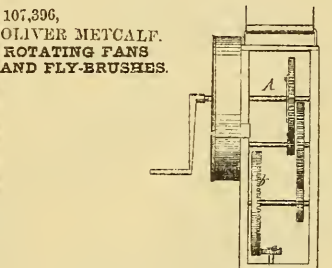


107,394, COOKING-STOVE.
JAMES H. McCONNELL.

107,395, WAIT MEAD.
GEORGE E. STARBUCK.
PROVISION-SAFE.



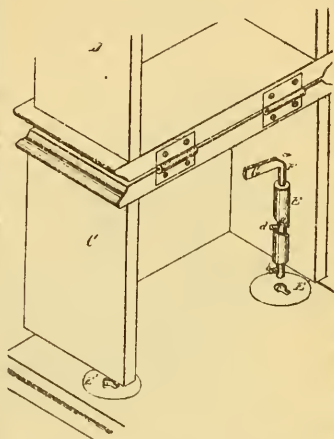
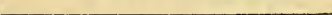
107,396, OLIVER METCALF.
ROTATING FANS
AND FLY-BRUSHES.



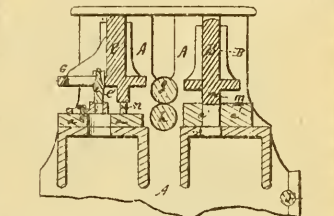
107,397, DAMIAN MINDERLE.
SCRUBBING-BRUSH.



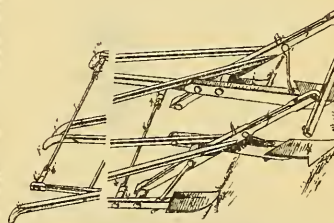
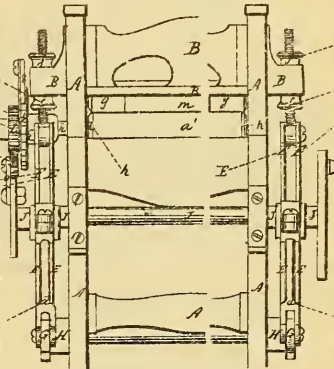
107,398, JOHN H. MOONEY.
DEVICE FOR SECURING COVERS
UPON SEWING-MACHINES.



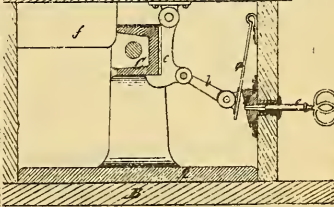
107,399, CHARLES E. MOORE.
MARTIN L. WYMAN.
MACHINES FOR MAKING
PAPER COLLARS.



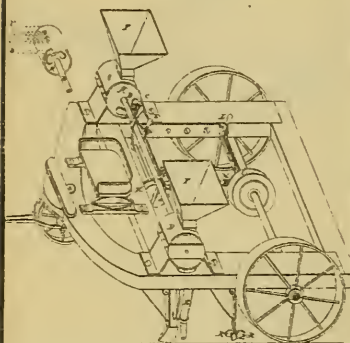
107,400, FELIX C. MOURNING.
CORN-FLOWS.



107,401, H. O. NAUEN.
LOCKS FOR SEWING-
MACHINE CASES.



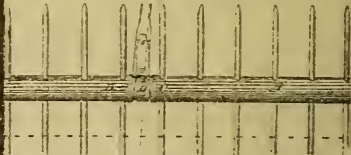
107,402. CORN-PLANTERS
HENRY AUSTIN NICHOLLS.



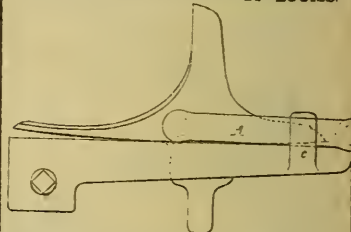
107,406. L. POCHET
VALVES IN STEAM APPARATUS
FOR DRESSING STONE.



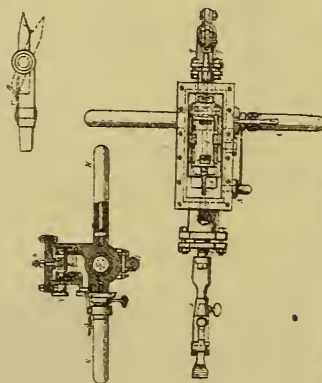
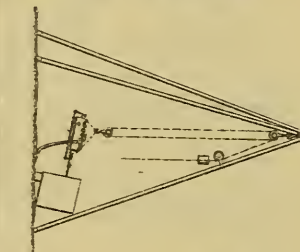
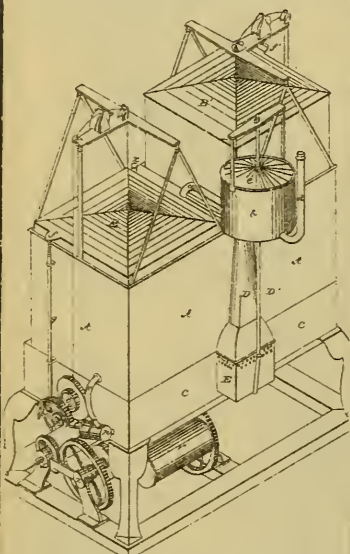
107,411. MACEDON J. ROBINSON
HORSE HAY-RAKES.



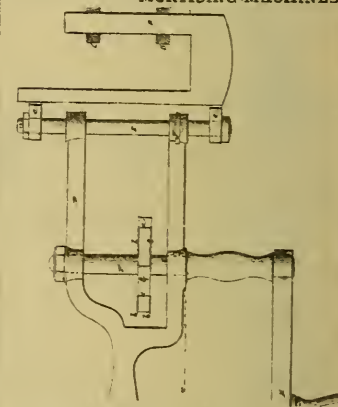
107,412. WANTON ROUSE.
OPERATING THE PICKER-STAFF
OF LOOMS.



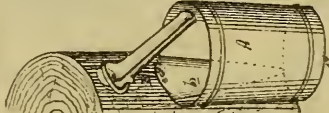
107,403. H. OERTEL.
APPARATUS FOR CARBURETING AIR.



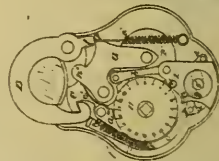
107,413.
DAVID S. SHEARER.
MORTISING-MACHINES.



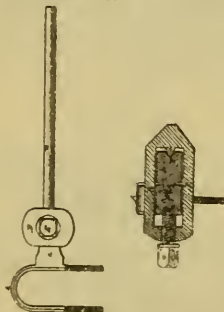
107,407. CHARLES C. POST. SAP-BUCKETS.



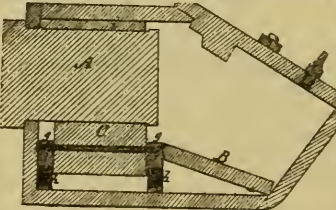
107,414. J. S. SHEPARDSON.
COMBINATION AND
REGISTER-PADLOCKS.



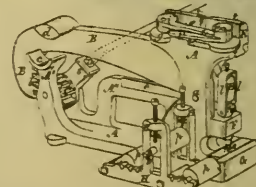
107,404. J. H. ORMSBY. THILL-COUPINGS.



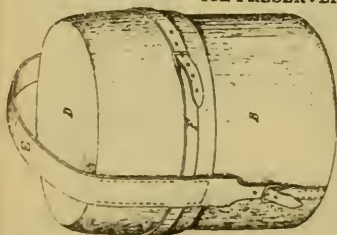
107,408. ABIJAH L. RAPLEE.
JOURNAL-BOXES FOR RAILWAY CARS.



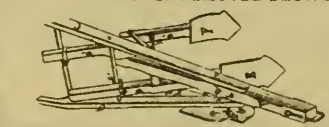
107,415. WRIGHT SLEEPER.
COMPOUND MACHINES FOR SHEARING
PUNCHING, UPSETTING,
AND BENDING METAL.



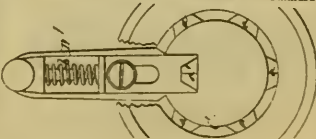
107,405. JAMES E. PILKINGTON.
ICE-PRESERVER.



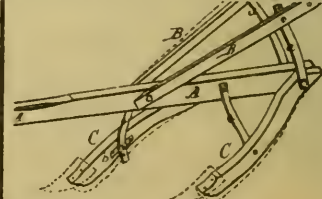
107,409. SAMUEL GARRET RAYL.
DOUBLE-SHOVEL FLOWS.



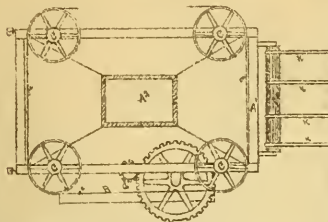
107,410. GEORGE W. REISINGER.
CORN-SHELLERS.



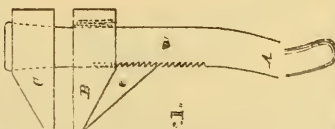
107,416. GEORGE H. SMITH.
CULTIVATORS.



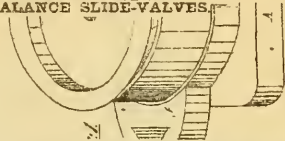
107.417. M. P. SMITH. DRIER.



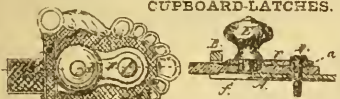
107.425. HENRY TREGELLAS. WRENCHES.



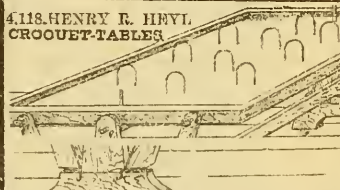
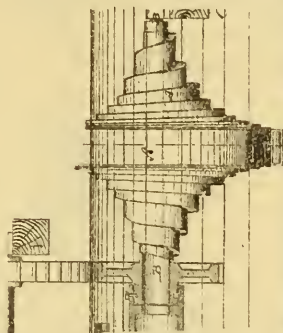
4.117. THOMAS M. HERRIOTT. SAMUEL MYERS. BALANCE SLIDE-VALVES.



107.418. WILLIAM E. SPARKS. CUPBOARD-LATCHES.

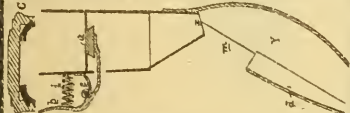


107.426. BERNHARD VATER. WATER-ELEVATORS.



4.118. HENRY R. HRYL. CROQUET-TABLES.

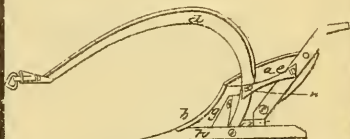
107.419. GEORGE H. SPENCER. SPOONS.



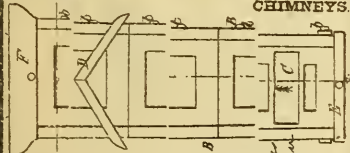
107.420. GEORGE H. SPENCER. FINGER-GUARDS.



4.119. JAMES VANDEGRIFT. FLOWS.



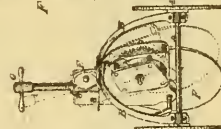
107.421. ALVAN J. SPRAGUE. CHIMNEYS.



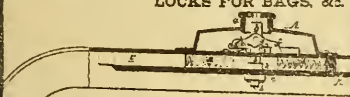
107.427. DAVID S. WAGNER. METHODS OF GRAFTING.



4.120. N. S. WARNER. TOY VELOCIPEDE



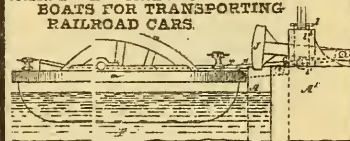
107.422. BERNARD STEINMETZ. LOCKS FOR BAGS, &c.



107.428. SYLVESTER P. WHEELER. COATING EMBOSSED WOOD.



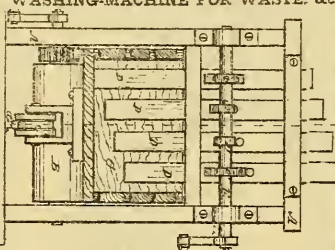
4.121. JESSE WHEELER. BOATS FOR TRANSPORTING RAILROAD CARS.



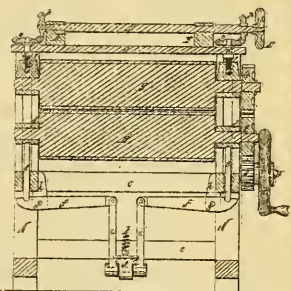
107.423. BYRON G. SWAIN. CURD-AGITATORS.



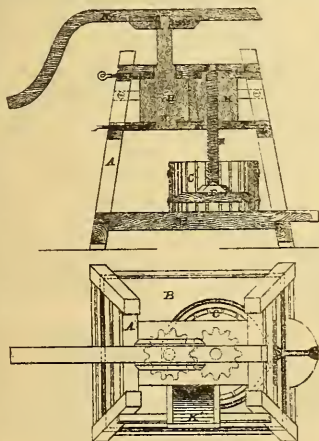
107.430. W. F. WITTE. WASHING-MACHINE FOR WASTE, &c.



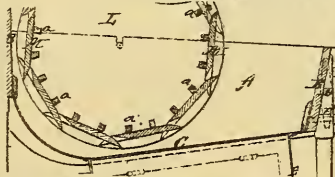
4.122. JOEL WHITNEY. MACHINE FOR ROLLING LEATHER.



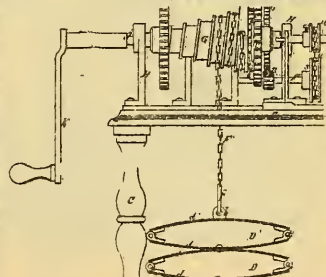
107.424. LEWIS R. TAYLOR. CIDER-MILLS.



107.431. J. B. WOOLSEY. WASHING-MACHINE.



4.123. JACOB ZUCKERMANN. MOTIVE-POWER FOR SEWING AND OTHER MACHINES.



107.432. DANIEL ZEIGLER. MECHANICAL MOVEMENT.

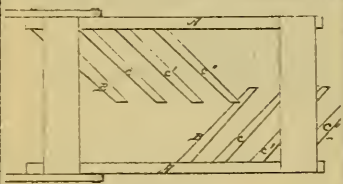
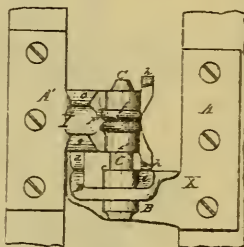


ILLUSTRATIONS OF PATENTS

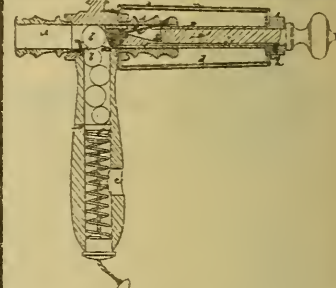
ISSUED FROM

THE UNITED STATES PATENT OFFICE

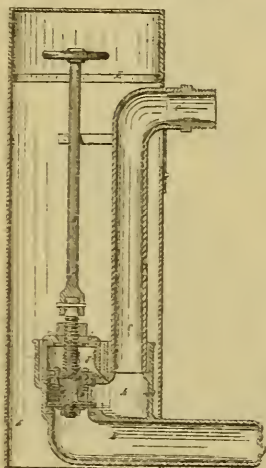
SEPTEMBER 20, 1870.

107,433. S. E. ANTHONY.
POTATO DIGGER.107,437. G. E. BOISSELIER.
SELF LOCKING HINGE.

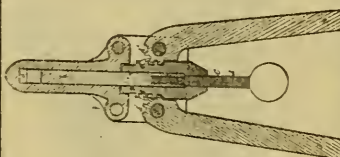
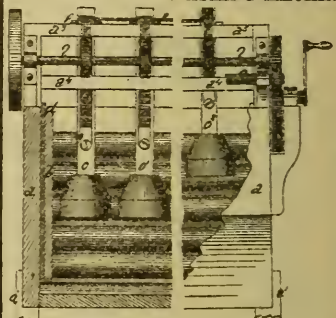
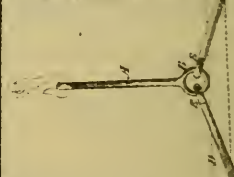
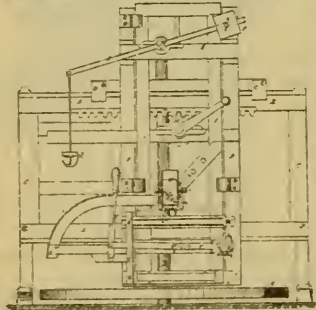
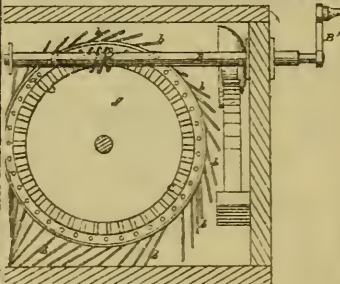
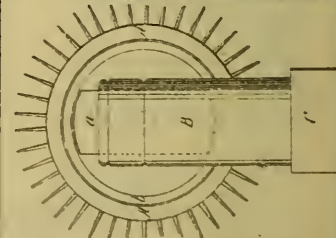
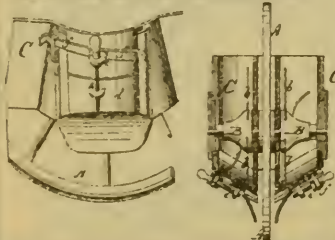
107,442 E. AND A. BUCKMANTON GUN.



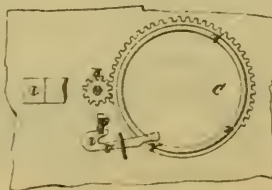
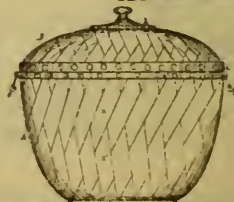
107,434. W. BAILEY. HYDRANT.



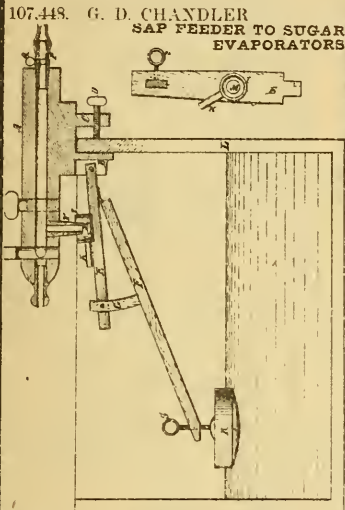
107,438 J. R. BROWN BOLT CUTTER.

107,443. E. L. BULLOCK.
WASHING MACHINE.107,439. W. BROWN.
SEAT FOR ROW BOATS.107,444. J. A. BURGESS.
HOISTING GRAPPLE.107,435. G. AND V. G. BARNEY
MACHINE FOR DRESSING TILES.107,440. W. BROWN.
STREET INDICATOR FOR CITY CARS.107,445G. E. BURTANDE. A. HILDRETH
BROOM CORN SEED STRIPPER.107,436. E. BLACKLIDGE.
SEED AND GUANO DISTRIBUTER.

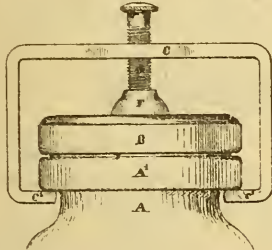
107,441. N. BRYAN SOLAR CAMERA.

107,446. L. AND A. C. CARMAN.
CLOTHES BASKET.

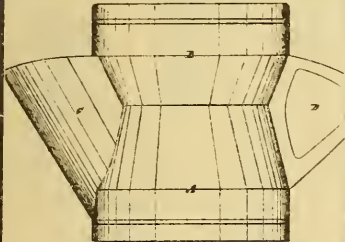
107.447. P. CASSON.
REMOVING BURS FROM WOOL.



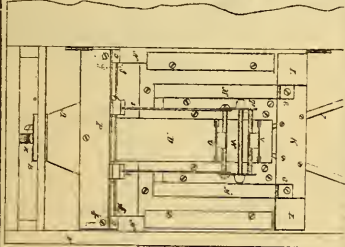
107.449. T. A. CLARK AND
H. C. MASCHOFF. FRUIT JAR.



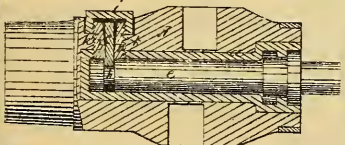
107.450. F. B. CLOCK SHAVING MUG.



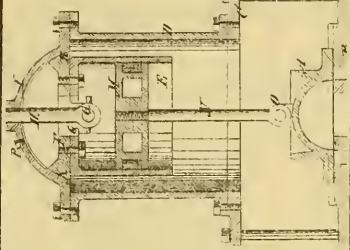
107.451. L. G. CLOCK EARTH CLOSET



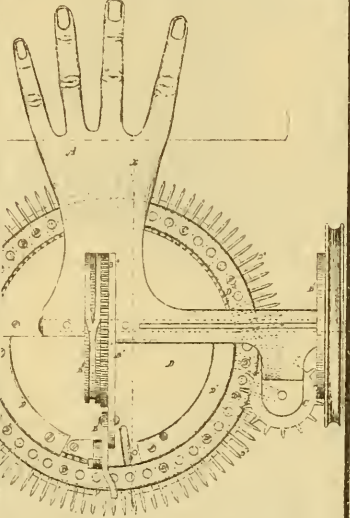
107.452. G. E. CLOW
SECURING HUBS TO AXLES



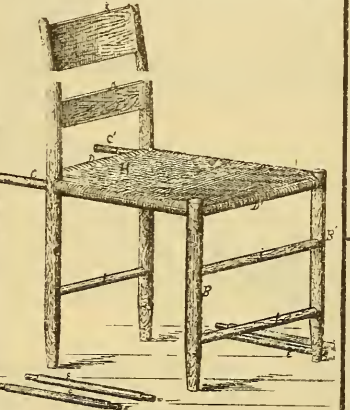
107.453. O. COLLIER AND
W. H. MASTERMAN. BALANCED SLIDE
VALVE.



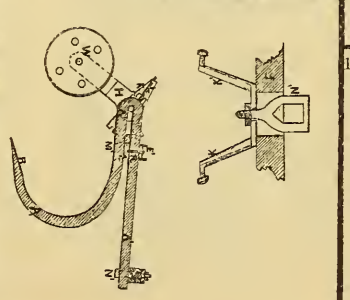
107.454. F. M. COMSTOCK
KNITTING MACHINE



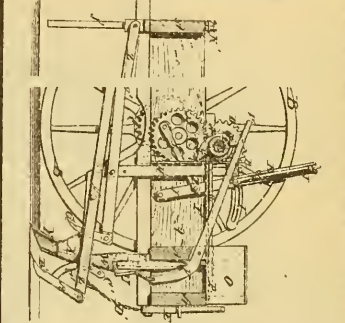
107.455 J. K. COOLIDGE AND N. H. HILL
FOLDING OR KNOCK DOWN CHAIR.



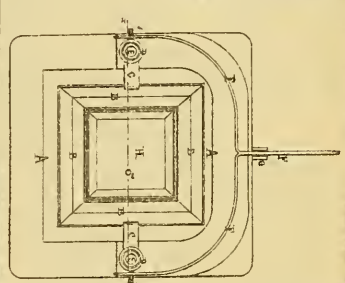
107.456. I. COPELAND HORSE HOE.



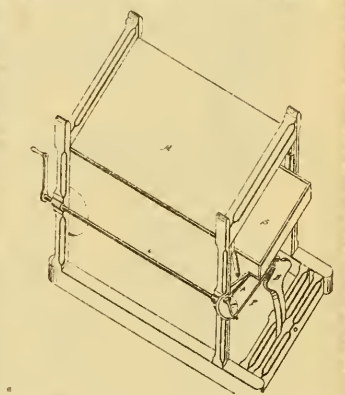
107.457. J. COSAND CORN PLANTER.



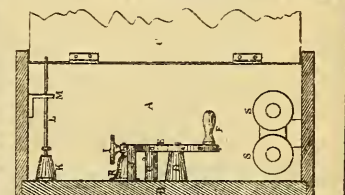
107.458. E. T. COVELL
SOLDERING MACHINE



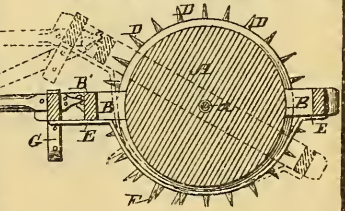
107.459. W. CRANE. DEVICE FOR
BALANCING FANNING MILL SHOES.

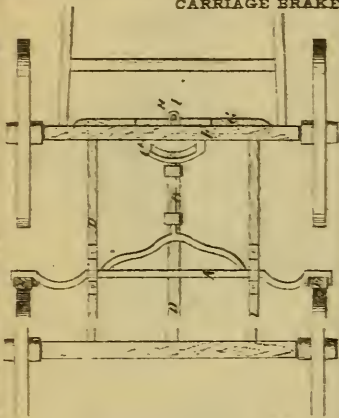


107.460. S. D. CUSHMAN SIGNAL BOX
FOR FIRE ALARM TELEGRAPHS

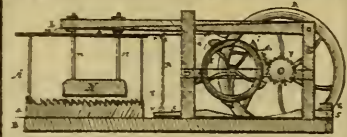


107.461 F. A. DANN AND J. MCKIBBEN
COMBINED HARROW AND ROLLER.

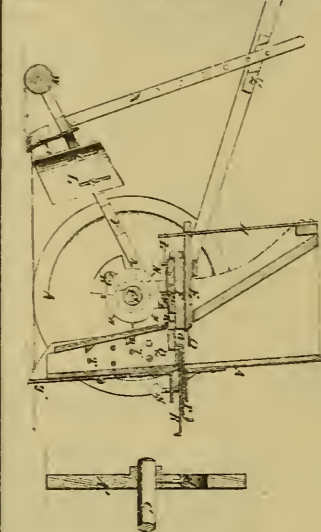


107,462. H. B. S. DAVIS.
CARRIAGE BRAKE

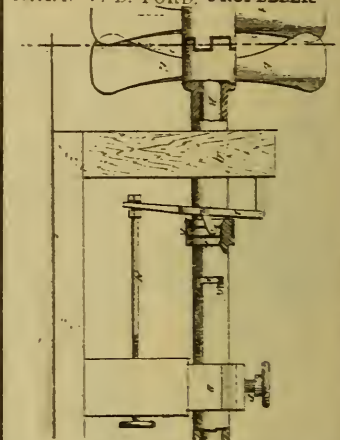
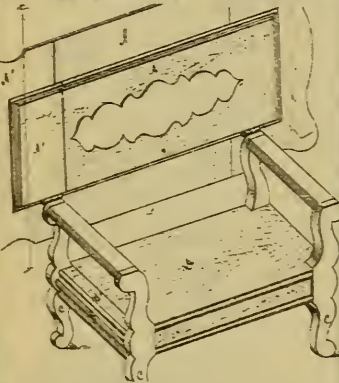
107,463 J. A. EBERLY. MEAT CHOPPER



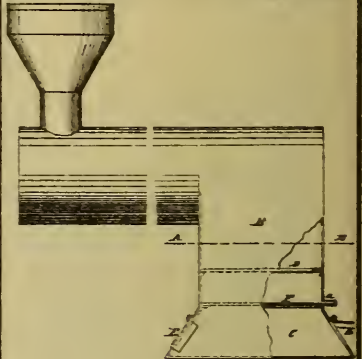
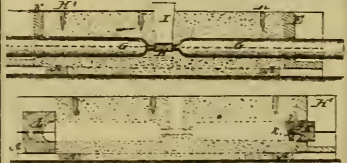
107,467 C. R. EDWARDS SEED PLANTER



107,471. J. D. FORD. PROPELLER.

107,465. M. DERZELL.
EXTENSION TABLE AND SETTEE

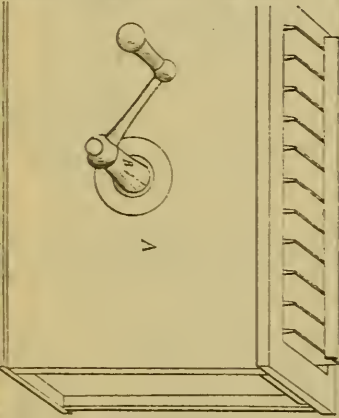
107,472. W. A. FOSTER LOCOMOTIVE

107,468. W. FERGUSON AND
J. ANDERSON
MOLDING SASH WEIGHT

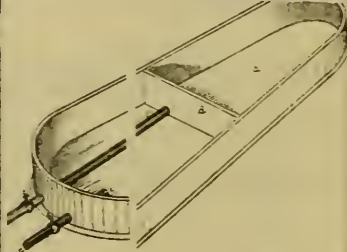
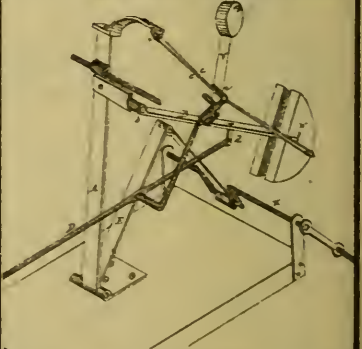
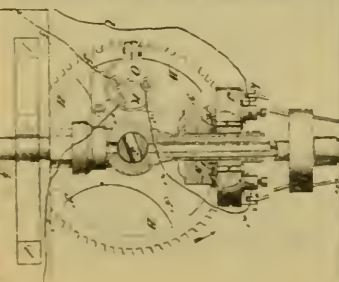
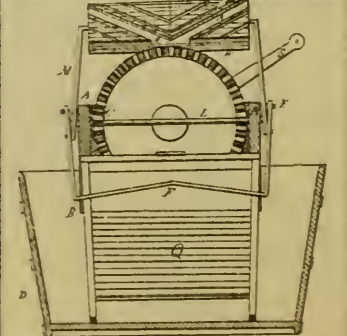
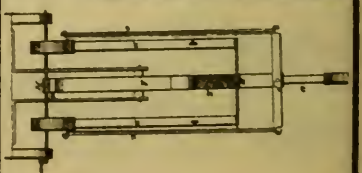
107,473. V. FOUNTAIN, JR. BUNG.



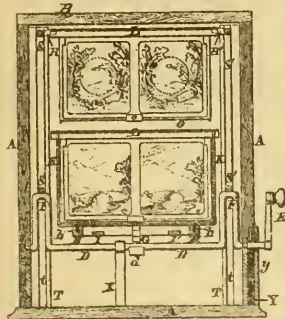
107,464. L. DEDERICK. CHURN.



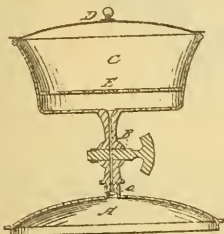
107,469. J. FISCHER. IRONING BOARD

107,474. H. FOWLER.
MECHANICAL HAND MOTOR.107,465. C. N. EALER.
ELECTRIC GAS LIGHTING APPARATUS107,470 C. FORD AND F. C. GARBUTT
WASHING MACHINE107,475. H. FOWLER
MECHANICAL HAND MOTOR.

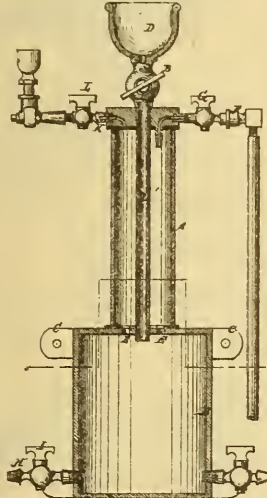
107,476. T. FUGATE. BOX STEREOSCOPE.



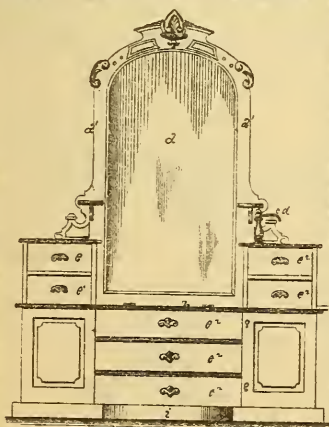
107,477. J. GALLAGHER COOKING APPARATUS.



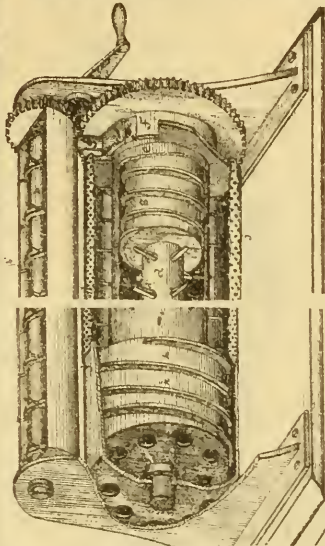
107,478. J. GATES. LUBRICATOR.



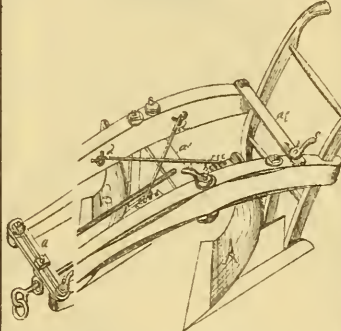
107,479. J. E. GILMAN COMBINED DRESSING BUREAU AND BATH TUB.



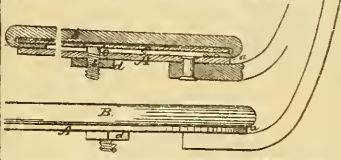
107,480. A. J. GLAS. APPARATUS FOR DECORTICATING SEPARATING. AND DRYING GRAIN.



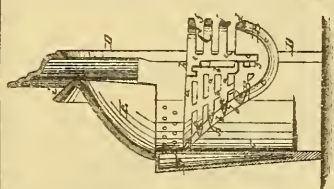
107,481. C. M. GORDON. PLOW.



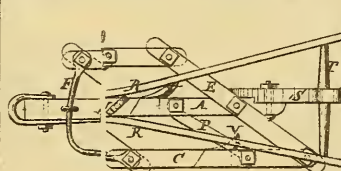
107,482. C. H. GOULD. SHIELD FOR CARRIAGE STEPS.



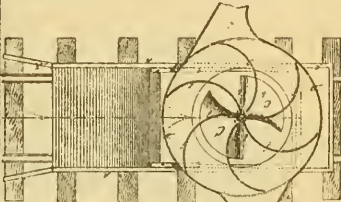
107,483J. HACKETT FIRE PLACEGRATE



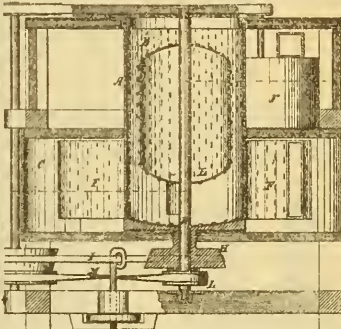
107,484J. H. HAMILTON CULTIVATOR



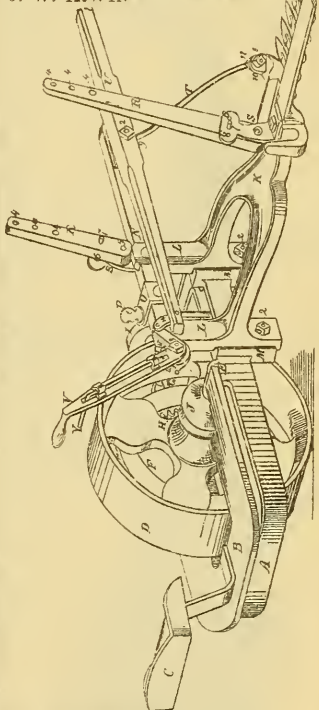
107,485. R. C. HARRIS SNOW PLOW.



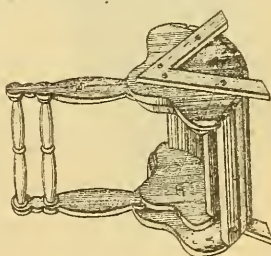
107,486. I. N. HARSHBARGER. GRAIN SCOURER.

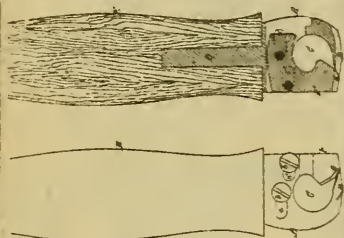
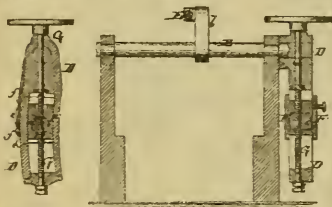
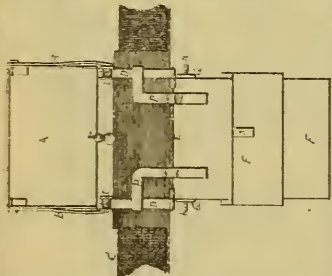


107,487 A. J. HASWELL; AND J. W. IRWIN HARVESTER.

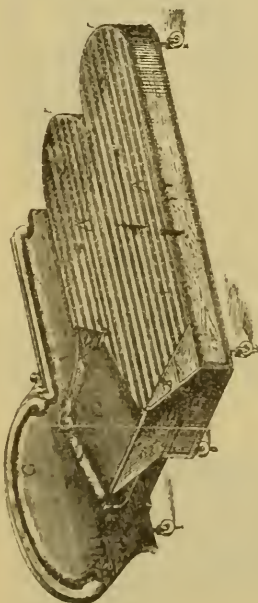
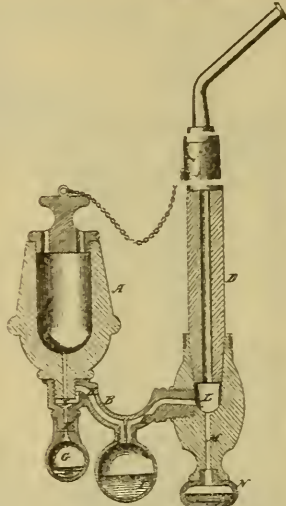
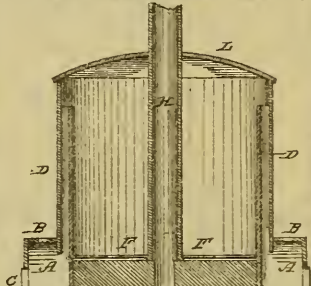


107,488P. HAYDEN WASHING MACHINE

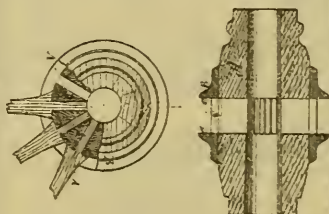


107,489. J. R. HAYES
COMPOSITION FOR PAVEMENTS107,490. J. R. HAYES. PREPARATION
OF COMPOSITION FOR PAVEMENTS.107,491. A. P. HAZARD
SHOEMAKERS EDGE PLANE107,492H. HENDRICKSON ADJUSTABLE
ARM FOR WORKING SLIDE VALVES.107,493. E. HERBSTER
STAND FOR CLEANING WINDOWS

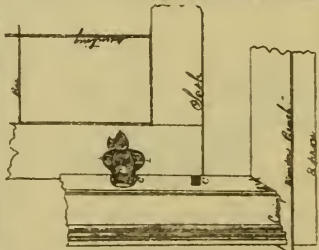
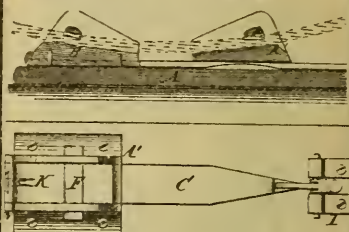
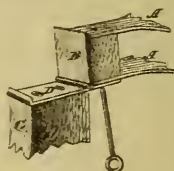
107,494N. H. HILL EXTENSION LOUNGE

107,495. C. F. HITSSELBERGER
SMOKING PIPE107,496. J. HORNSBY
KILN FOR BURNING TILES, PIPES, &c.

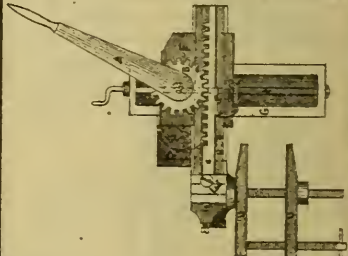
107,497. J. B. HUBBELL WAGON HUB.



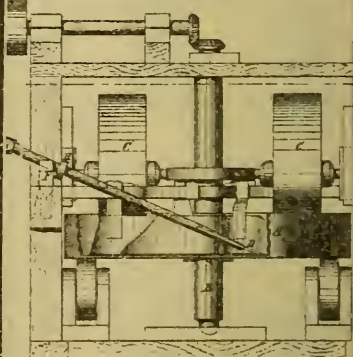
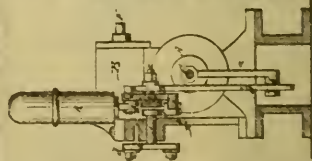
107,498. H. C. HUNT GASH HOLDER.

107,499. J. HUNT
LIFE PRESERVING MATTRESS107,500. W. HUNT.
COMPOUND MACHINE FOR UPSETTING
PUNCHING, AND CUTTING METAL107,501. W. A. IRELAND
DEVICE FOR OPERATING HAND FAN.

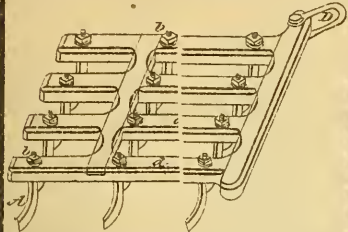
107,502A. JUDSON PLANING MACHINE



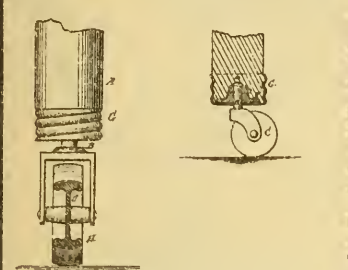
107,503J. KELLET MUD AND ORE MILL

107,504. J. C. KING. VALVE GEAR
FOR STEAM PUMPS, ENGINES, &c.107,505 BALANCED ROCK VALVE.
J. C. KING

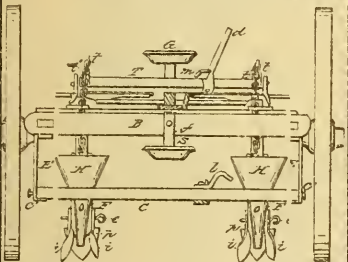
107,506 H. R. KINNEY HARROW TEETH



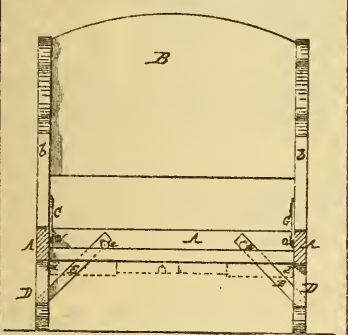
107,507. J. KINTZ. CASTER.



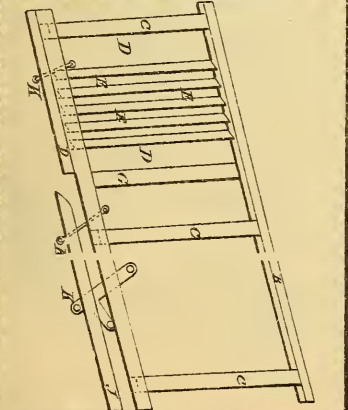
107,508. M. L. KISSELL AND J. B. KISSELL, CORN PLANTER.



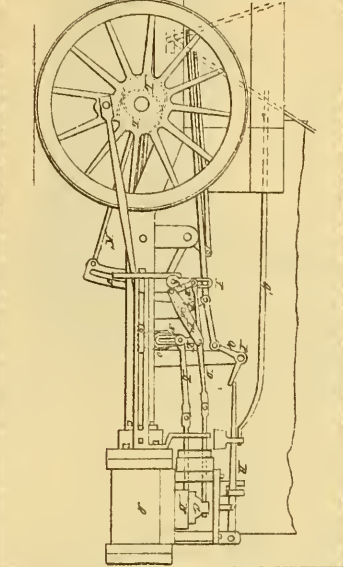
107,509 H. W. LADD BEDSTEAD AND COT



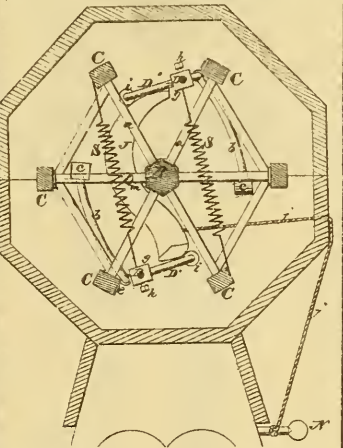
107,510. I. LEBO. THRASHING MACHINE SEPARATOR



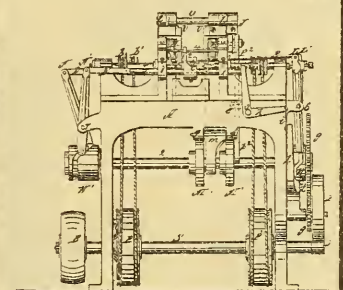
107,511. C. LEWIS. LOCOMOTIVE ATTACHMENT.



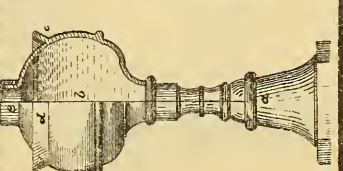
107,512 F. B. LEWIS, BOLTING REEL



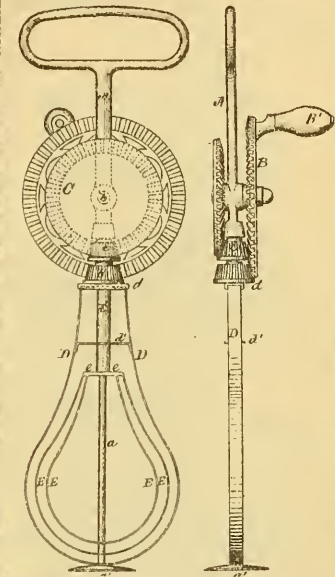
107,513. H. LOCKE, TURNING LATHE



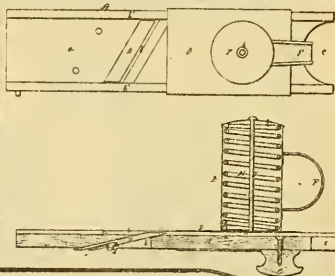
107,514. G. H. LOMAX LAMP.



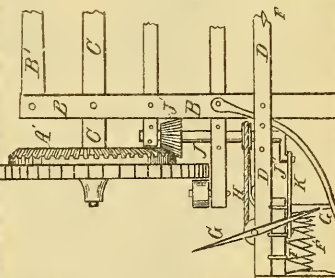
107,515. T. MARSH. EGG BEATER.



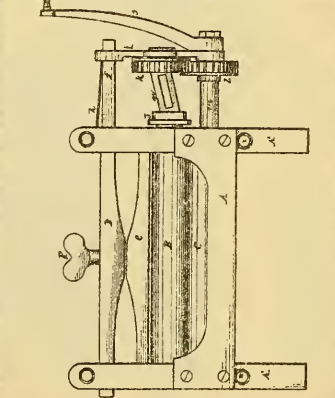
107,516. W. A. MAYHEW. FRUIT AND VEGETABLE SLICER

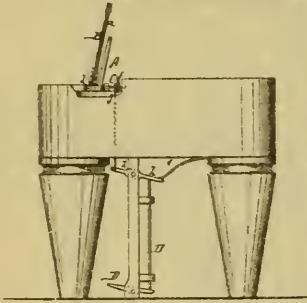
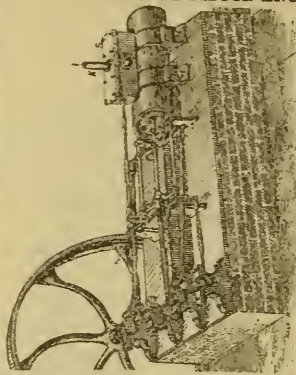
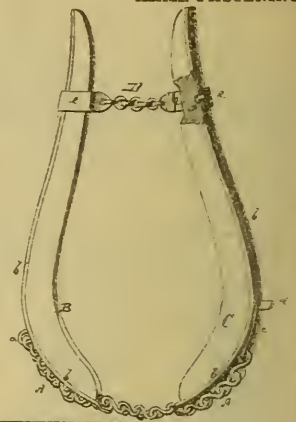


107,517 J. McANULTY. HEDGE TRIMMER

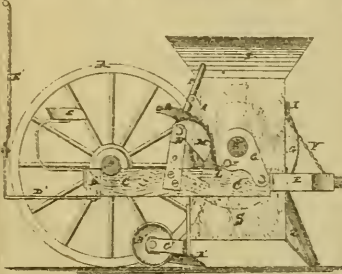
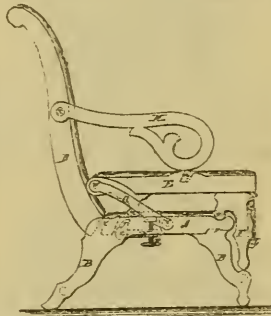
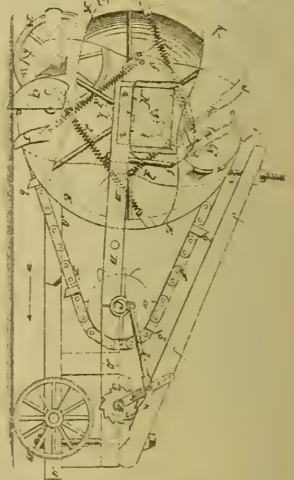


107,518. J. McLAUGHLIN. CLOTHES WRINGER.

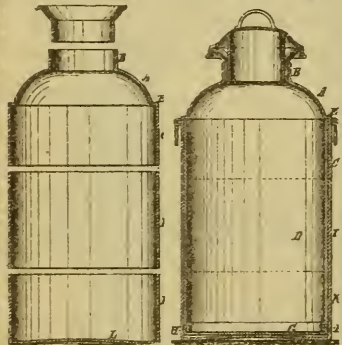


107.519. J. W. MELLOR
MUSIC LEAF TURNER.107.524. A. W. MORRELL
DOUBLE PISTON ENGINE.107.528 S. D. G. NILES
HAME FASTENING.

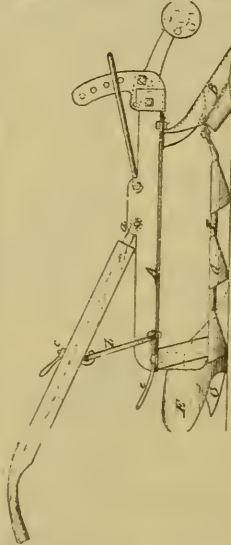
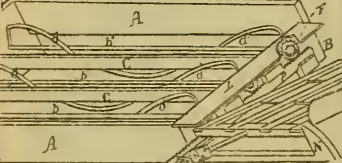
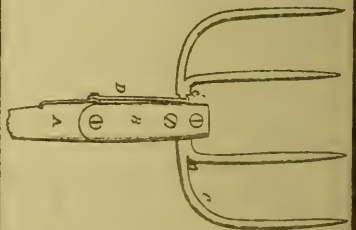
107.520 W. M. MEYER-CORN PLANTER.

107.525. W. MORSTATT AND F. KIIP.
FOLDING CHAIR.107.529 R. R. OSGOOD
DITCHING MACHINE.

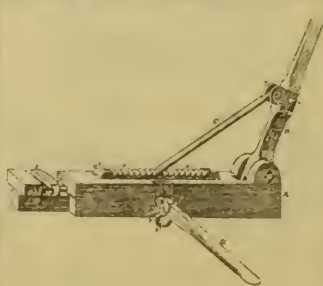
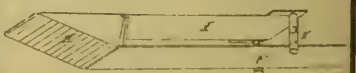
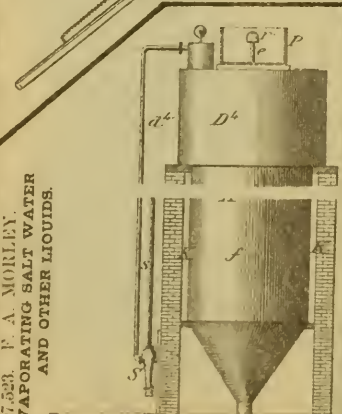
107.521. J. C. MILLIGAN MILK CAN.



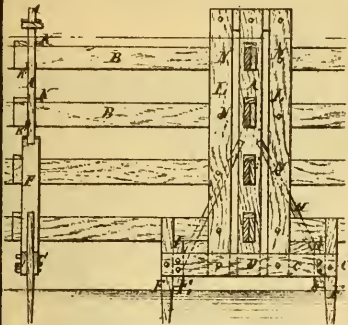
107.526. J. NEFF, JR. CULTIVATOR.

107.522. T. C. MOORE.
HARVESTER DROPPER.107.530 E. PARKER
TRACK RAIL FOR SLIDING DOORS.107.531 T. W. PEIRCE.
HAY FORK AND HOOK.

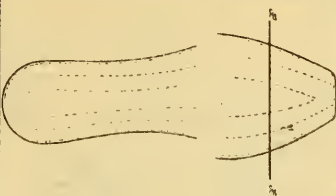
107.527. D. NETTLETON FLOOR CLAMP.

107.532 L. V. PERCIVAL AND J. LINK
ANIMAL TRAP.107.523. F. A. MORLEY.
EVAPORATING SALT WATER
AND OTHER LIQUIDS.

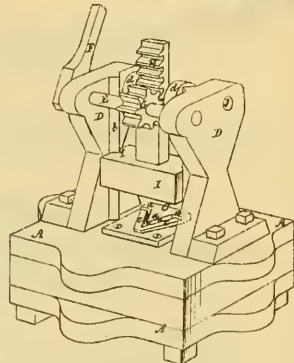
107,533. L. PHILIPS. FENCE



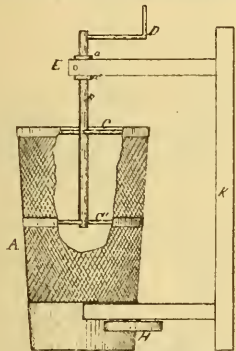
107,537. W. E. PRALL. INSIDE SOLE FOR BOOTS AND SHOES



107,541. S. F. REYNOLDS. MACHINE FOR TEMPERING SICKLE SECTIONS, PLANE IRONS, &c



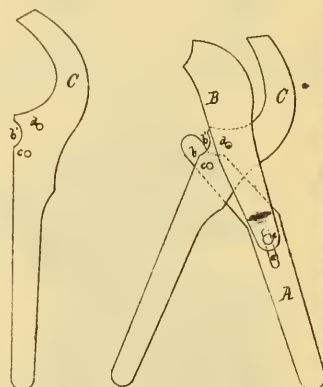
107,534 L. B. PITCHER. MANNER OF MOUNTING HOLLOW REVOLVING CYLINDERS.



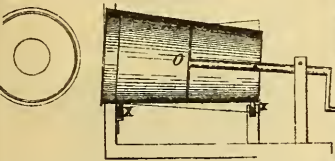
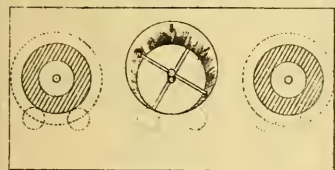
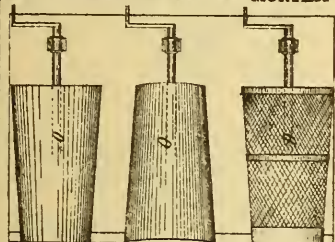
107,538. W. E. PRALL. COVER FOR BOOTS AND SHOES



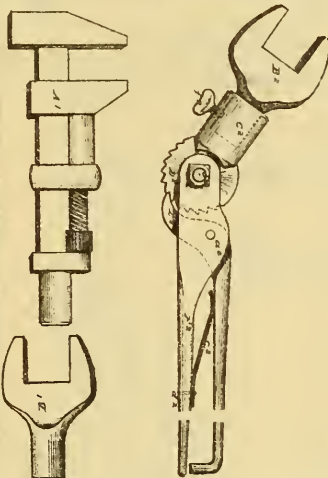
107,542 W. RICHARD PRUNING KNIFE



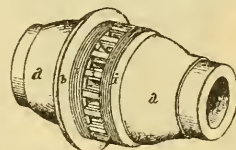
107,535 L. B. PITCHER. PROCESS AND MACHINERY FOR MAKING MORTAR



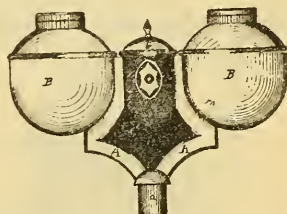
107,539. F. P. RAND. WRENCH



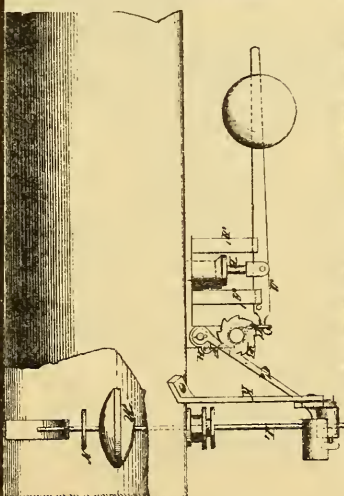
107,543. J. RIDGE CARRIAGE WHEEL



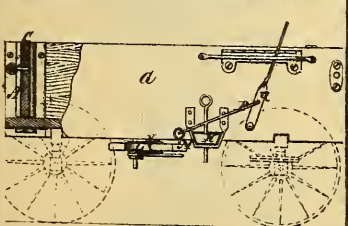
107,544. D. C. RIPLEY GLASS LAMP.



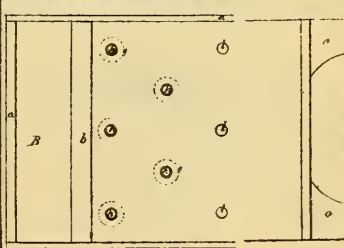
107,540. W. R. REECE. SAFETY VALVE

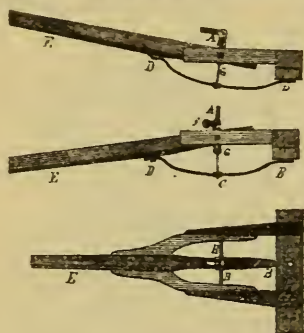


107,536. W. H. PORTER. WAGON BED

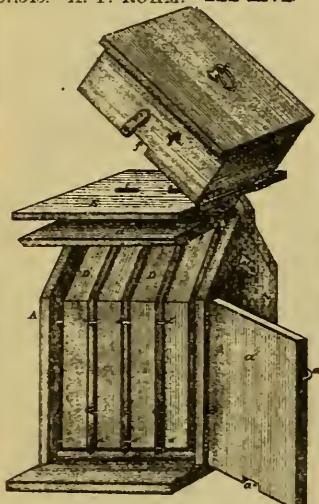
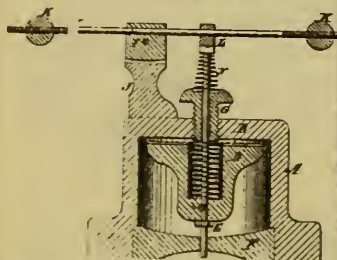
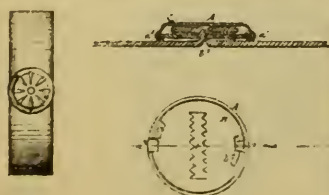
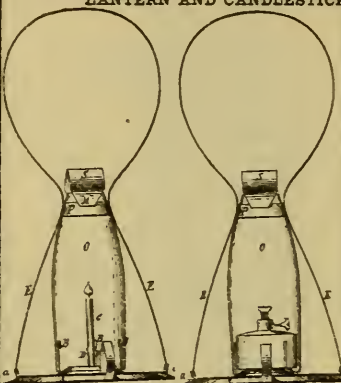


107,545. C. ROBINSON. ALLEY BOARD FOR BALL GAMES

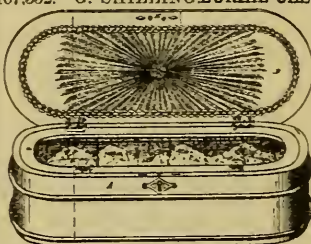
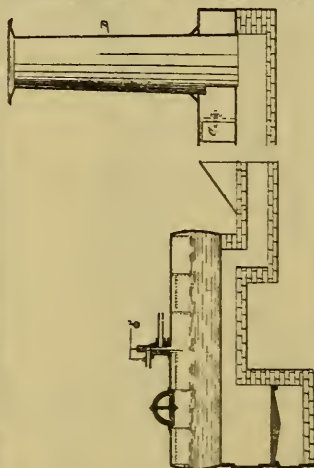
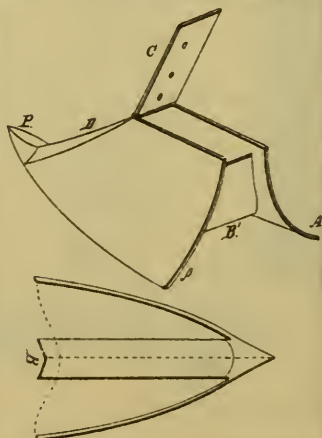
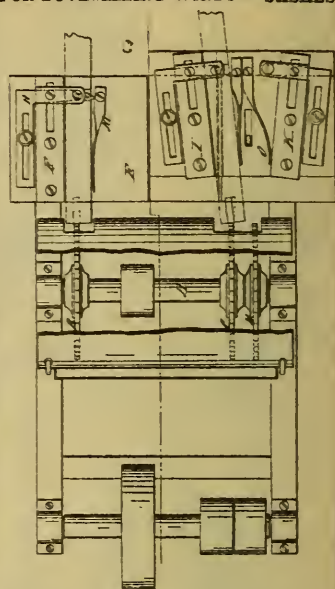
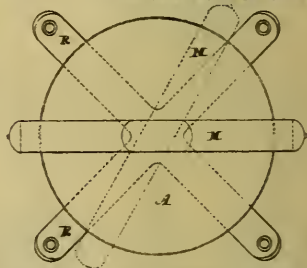
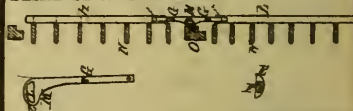


107,546. D. D. ROBINSON.
WAGON TONGUE SUPPORT107,547. A. H. ROCKWELL.
CHECK REIN CONNECTOR

107,548. H. F. ROHM. BEE HIVE

107,549. T. P. SANBORN
ORGAN TREMULANT107,550. A. SCHEYDECKER
CLASP FOR ELASTIC BANDS107,551. M. A. SHEPARD COMBINED
LANTERN AND CANDLESTICK

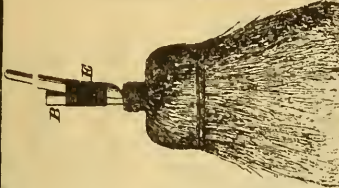
107,552. G. SHILLING-BURIAL CASE.

107,553. L. SIBERT. DESULPHURIZING
AURO PYRITES AND OTHER ORES.107,554. D. SLAUGHTER
SHOVEL FOR SEEDERS.107,555. DE W. C. SMITH. MACHINE
FOR DOVETAILING WINDOW SASHES.107,556 J. S. SMITH
TWINE HOLDER STAND107,557. J. B. SMITH, S. A. GREELY
AND A. CAMPAIGNE.
BLIND SLAT OPERATOR

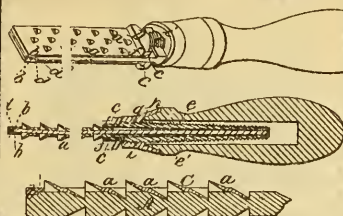
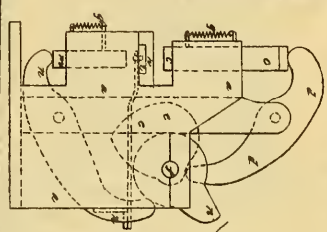
107,558. C. L. STEELE. FLOWER POT.



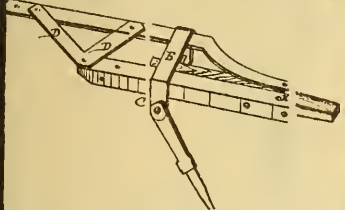
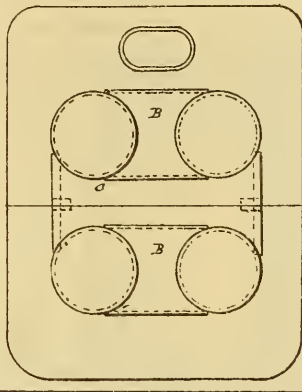
107,559. J. STRONG. BROOM HANDLE.



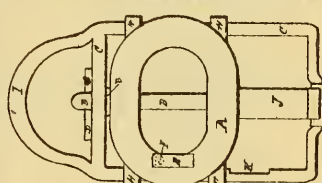
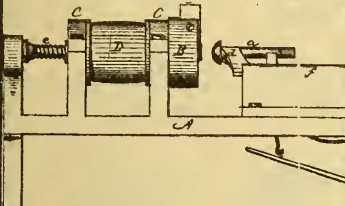
107,565. I. F. THOMPSON. RASP.

107,570. C. VOLKERT.
BUTTON MACHINE.

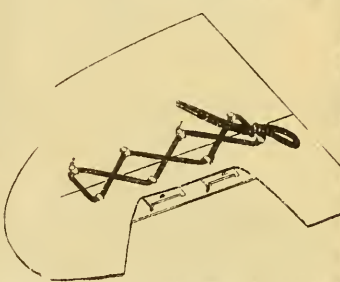
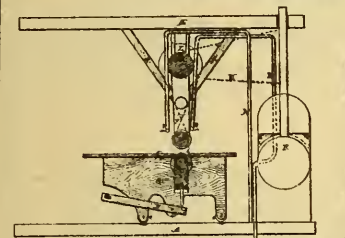
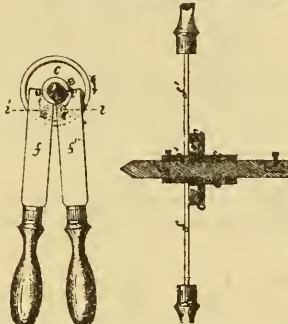
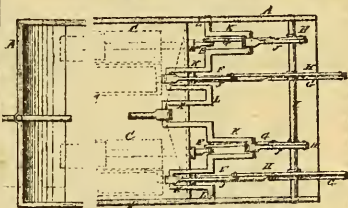
107,560. J. W. SURSAGANG FLOW BEAM.

107,566. J. THORNILEY
CENTER PLATE FOR STOVE TOPS.

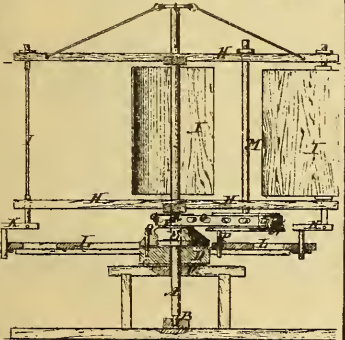
107,571. W. WALKER. CAR COUPLING.

107,561. W. F. SWATHIEL MACHINE
FOR TURNING THE HEADS OF BOLTS.

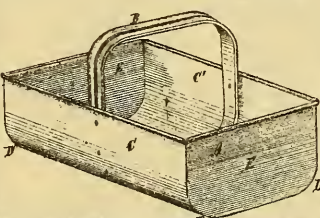
107,572. W. P. WARE. SHOE FASTENING.

107,562. E. D. TAYLOR AND W. RUDE
MACHINE FOR BREAKING HIDES AND
WORKING LEATHER.107,567. A. TURNBULL.
RATCHET FEED MECHANISM.107,573. E. K. WATSON
PROPELLING CANAL BOATS.

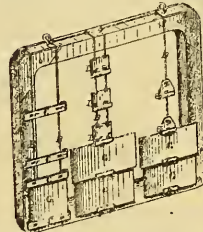
107,563. B. C. TERRY WIND WHEEL.



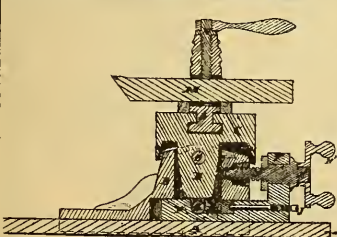
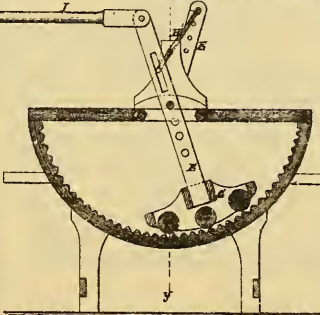
107,568. S. S. VAIL. WOOD BUCKET.



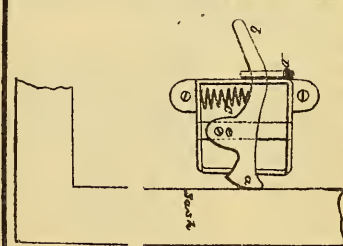
107,574. W. WENDELL. CARD RACK.



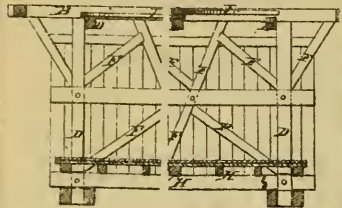
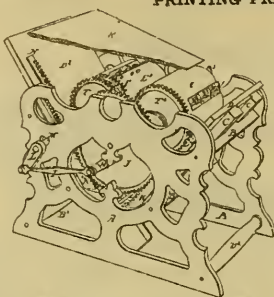
107,564. A. THOMAS. TOOL REST.

107,569. A. L. VAN NORMAN.
WASHING MACHINE.

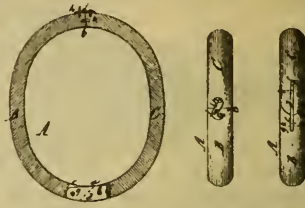
107,575. G. W. WHEAT. SASH HOLDER.



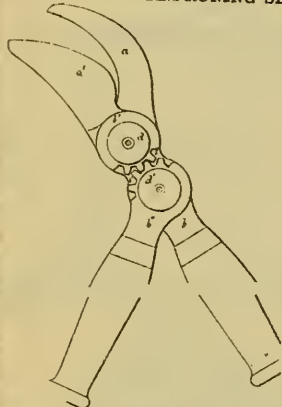
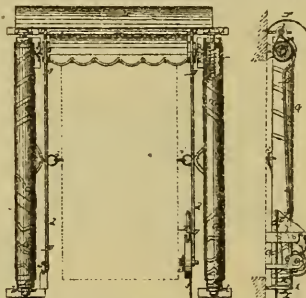
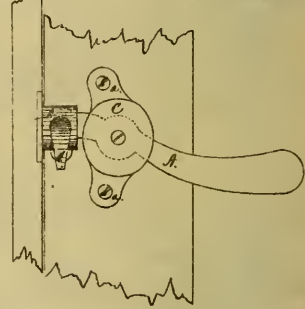
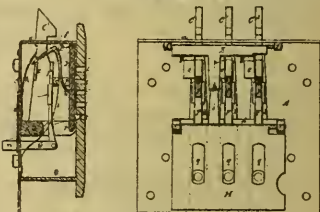
107,576. J. H. WHEELER BRIDGE.

107,583. C. D. WRIGHTINGTON
PRINTING PRESS.

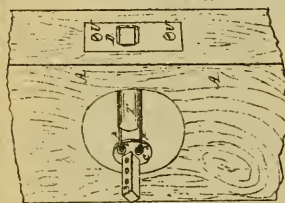
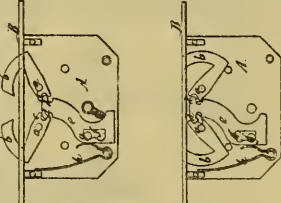
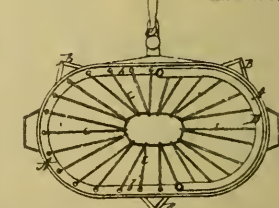
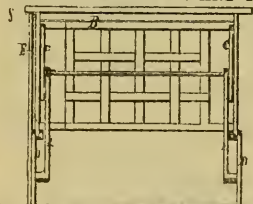
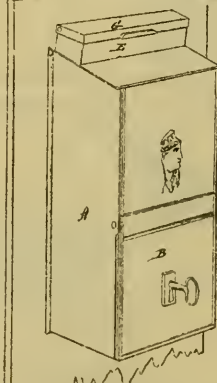
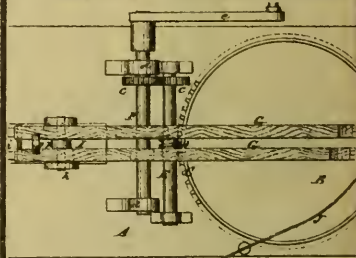
107,588. J. BARCLAY. BRACELET.



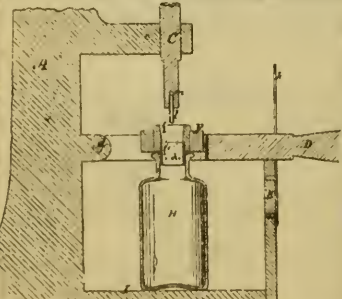
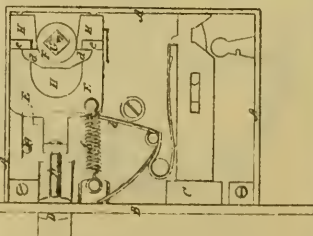
107,577 F. A. WILL PRUNING SHEARS

107,584. L. YENNE AND
C. SCHNEIDER ADJUSTABLE AWNING107,589 E. BARKS AND L. H. EMMONS
LATCH FOR GATES.107,590. J. E. AND L. P. BARNES
PERMUTATION LOCK

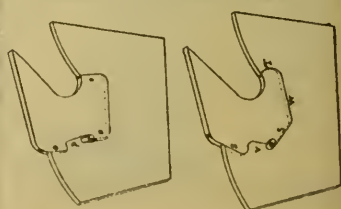
107,578 J. T. WILLIAMS. KNOB LATCH.

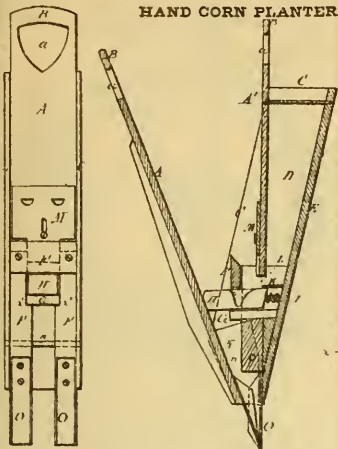
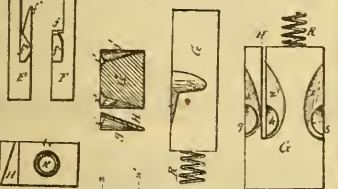
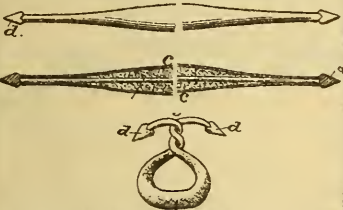
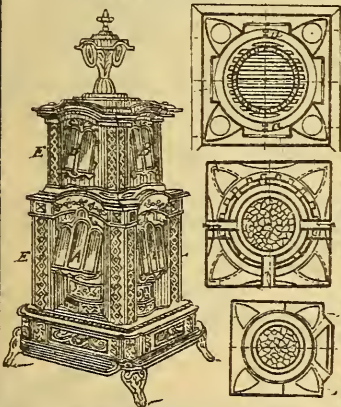
107,585 H. AHREND LOCK FOR PIANOS,
&c107,591. J. W. AND M. A. BATES
WASH BOILER107,579 F. D. WILLIAMS COMPOUND FOR
STUFFING AND FINISHING LEATHER107,580 G. WILSON
BEDSTEAD AND TABLE107,586 A. W. ALLEN AND C. REITZ.
MAIL BOX.107,592 T. BONFILS AND J. GROSSMAN
MEAT AND VEGETABLE CUTTER

107,581 G. WILSON ADJUSTABLE CHAIR

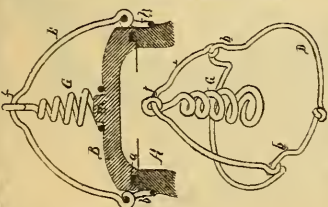
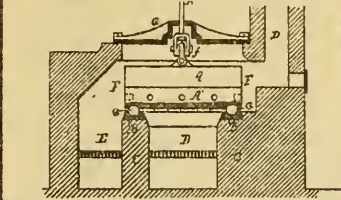
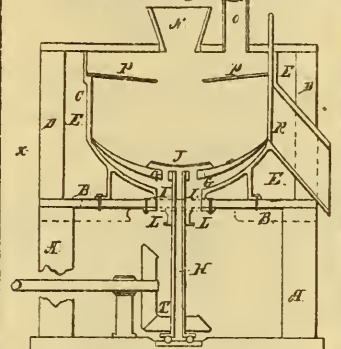
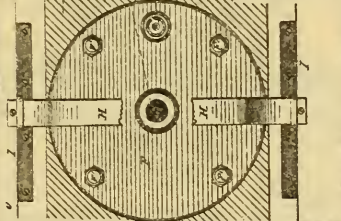
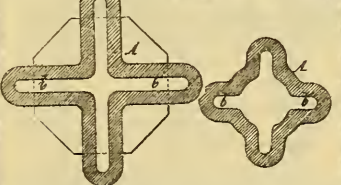
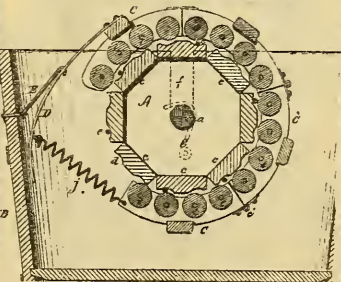
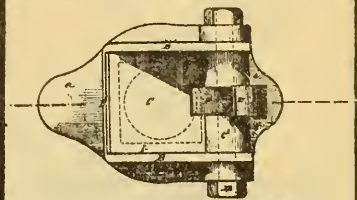
107,582 J. WOLFF AND W. N. NUSSEN
BOTTLE CORKING MACHINE107,587. H. P. APPLETON
REVERSIBLE KNOB LATCH

107,593. W. E. BROOKE. SAW.

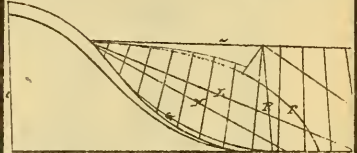


107,594. G. BURSON.
HAND CORN PLANTER.107,595. G. BURSON.
HAND CORN PLANTER.107,596. P. CEREDO. DEVICE
FOR CURLING AND DRESSING HAIR.107,597. A. C. CORSE.
BASE BURNING COAL STOVE.

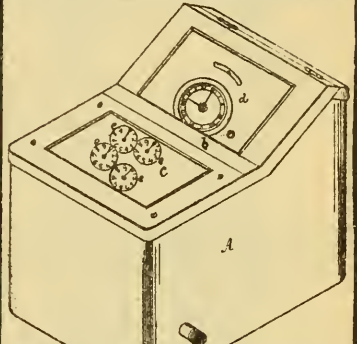
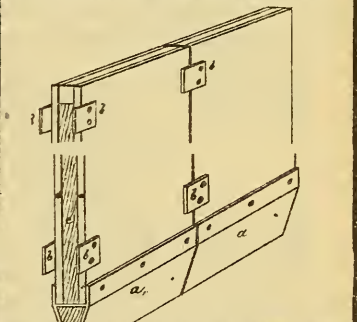
107,598. E. CROFT. FRUIT JAR.

107,599. H. DISSON. COMBINED FURNACE
OR OVEN AND TEMPERING DIE.107,600. A. DUVAL. APPARATUS
FOR ROASTING AND DRYING
ORES AND OTHER MATERIALS.107,601A. J. ELDER. ELECTRO
MAGNETIC RAILROAD SIGNAL
APPARATUS.107,602. D. EYNON.
ART OF MANUFACTURING SPIKES.107,603. A. F. DU FAUR.
EXHAUST NOZZLE.107,604. J. A. FLETCHER.
WASHING MACHINE.107,605. W. A. POSTER. EXHAUST
NOZZLE FOR STEAM ENGINES.

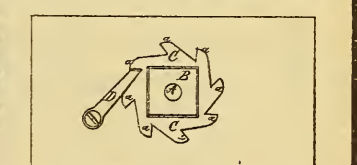
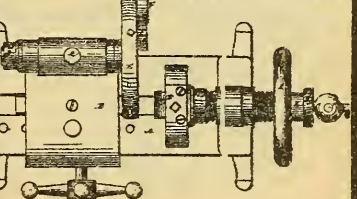
107,606. F. M. FRANKLIN. FLOW.

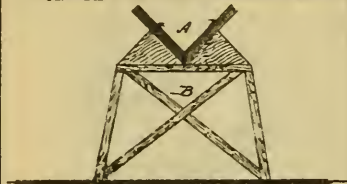


107,607. W. H. FREUN. LIQUID METER.

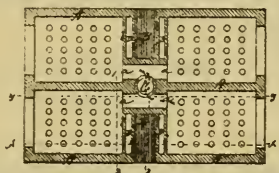
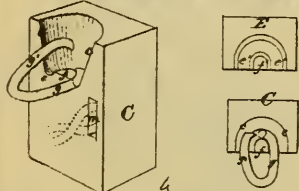
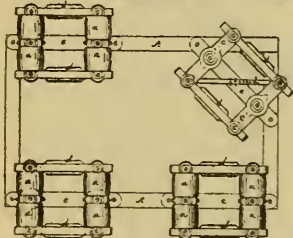
107,608. S. GARDNER. PROTECTING
DIKES AND EMBANKMENTS AGAINST
THE RAVAGES OF ANIMALS, &c.

107,609. R. GILLILAND. NUT LOCK.

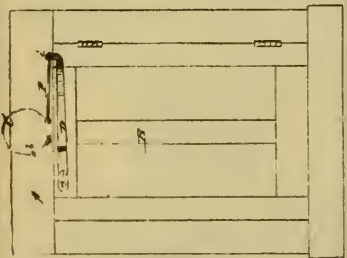
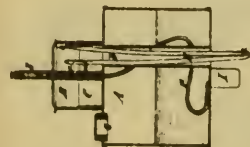
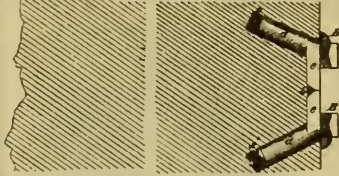
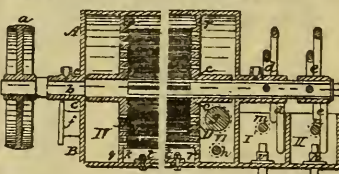
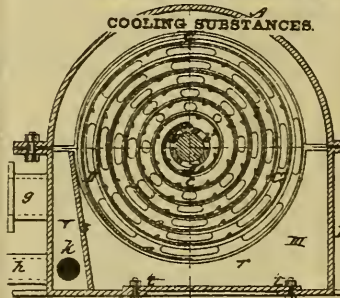
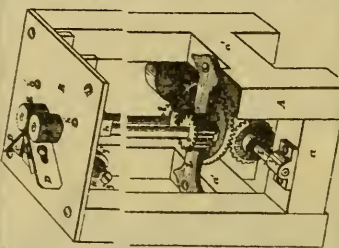
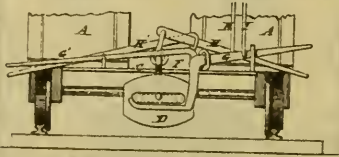
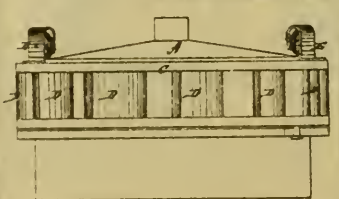
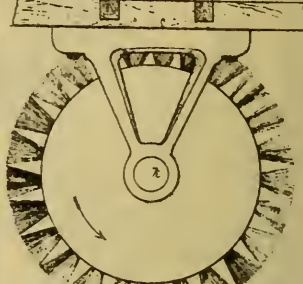
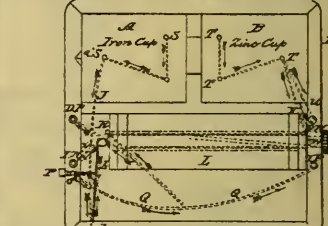
107,610. J. J. GRANT. MACHINE FOR
DRILLING AND CUTTING
SCREW THREADS.

107.611. J. W. HAINES
CHUTE FOR DELIVERING TIMBER.

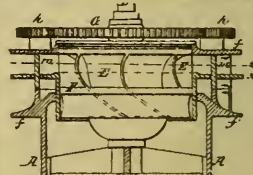
107.612. B. R. HAWLEY. KILN.

107.613. W. B. HAYDEN. MACHINE
FOR WELDING CHAIN LINKS.107.614. E. J. HELWIG
FASTENING FOR EPAULETS.107.615. S. INMAN.
DEVICE FOR MOVING BUILDINGS.

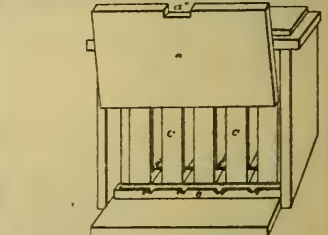
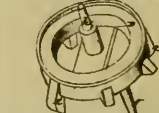
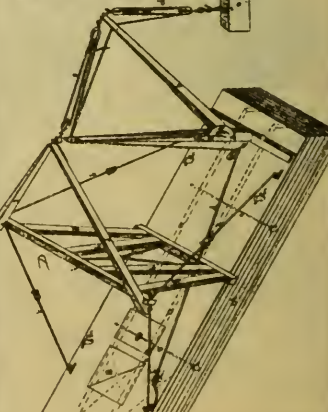
107.616. M. JINCKS. DOOR SPRING

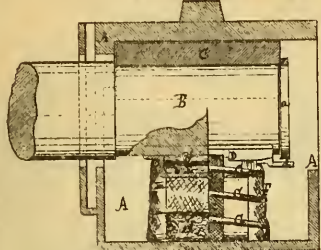
107.617. L. W. LEARY.
LAMP WICK REGULATOR.107.618. J. LEMMAN
BED RAIL FASTENER.107.619. O. H. NEEDHAM.
COMPOUND TREADLE.107.620. B. R. NICKERSON.
PRESERVING AND HARDENING WOOD.107.621. M. NOLDEN APPARATUS
FOR MIXING, HEATING, AND107.622. S. PARKER.
HOOP SHAVING MACHINE107.623. R. F. RANDOLPH, JR.
APPARATUS FOR COUPLING CARS.107.624. J. RANEY.
WATER WHEEL CASE.107.625. H. P. REED AND T. E. WILSON.
MACHINERY FOR DRESSING SKINS.107.626. C. REITZ. ELECTRO MAGNETIC
APPARATUS FOR MEDICAL USE.

107.627. T. H. RISDON. WATER WHEEL.

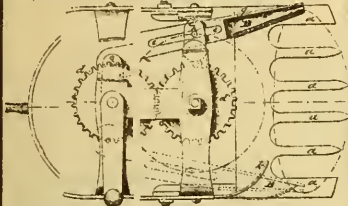
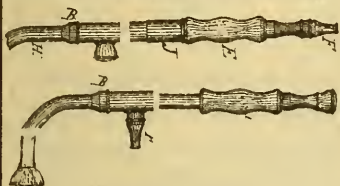
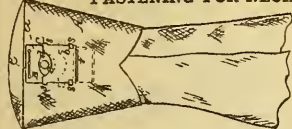
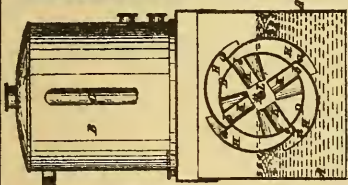
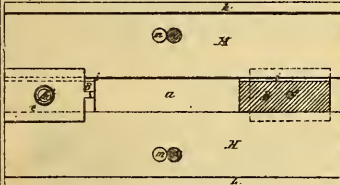
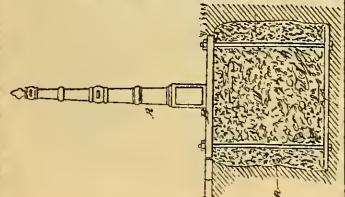
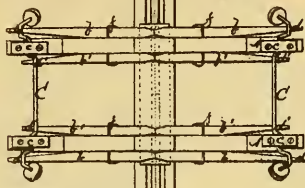
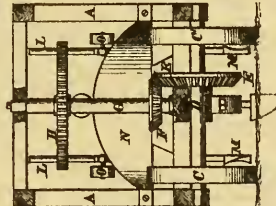


107.628. H. F. ROHM. BEE HIVE.

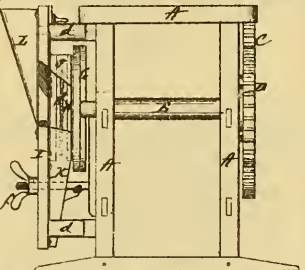
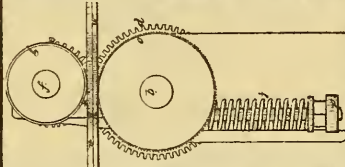
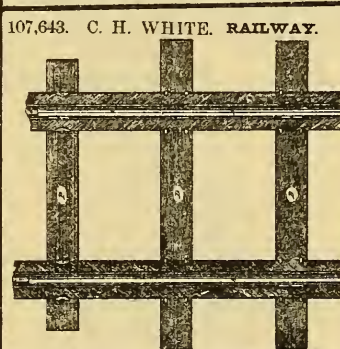
107.629. T. P. ROSSITER.
BASE BURNING COOKING STOVE.107.630. T. SAULPAUGH
DERRICK BOAT.

107,631 T. SAYLES
CAR AXLE LUBRICATOR

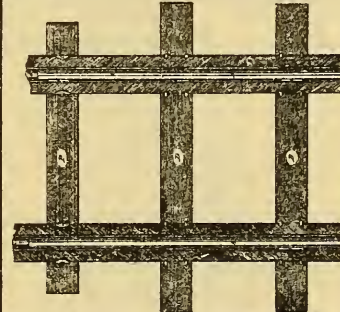
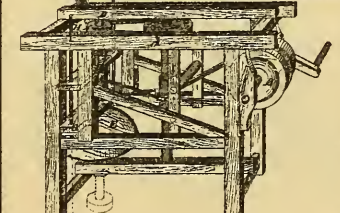
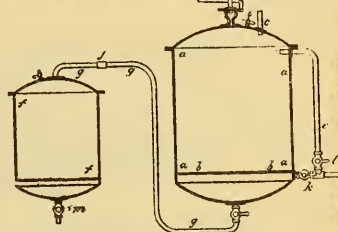
107,632 S. W. SEARS. GRASS CUTTER

107,633. W. SERVANT.
PORTABLE SPRINKLING PUMP.107,634. P. J. SHIRTS.
FASTENING FOR NECKTIES.107,635 J. F. SPENCE AND
L. D. TOWSLEY. ROTARY AIR WHEEL
FOR GAS CARBURETERS.107,636. S. STILWELL.
SLIDE FOR EXTENSION TABLES.107,637. U. B. STRIBLING.
METHOD OF SETTING POSTS.107,638. J. J. TOFFLEMIRE AND
J. D. LINNELL. GATE.107,639 J. TRANTER, J. KINSEY, AND
J. M. CARR. ROTARY POWER FLOW.

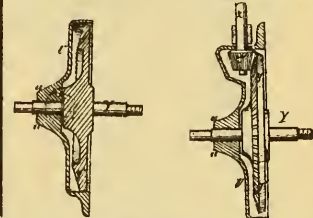
107,640 A. VERBECK. GRINDING MILL.

107,641. H. S. VROOMAN
ROUNDING UP MACHINE FOR SHOES107,642. E. WAITE FABRIC FOR THE
MANUFACTURE OF SHOES, &c.

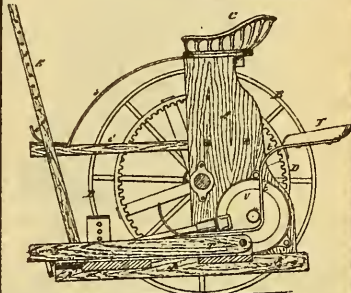
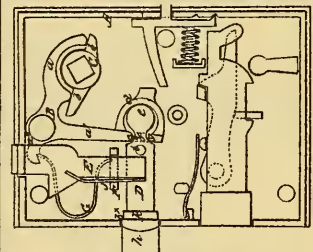
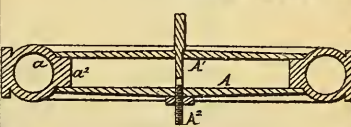
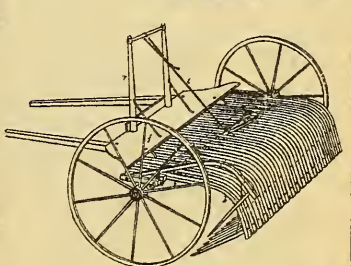
107,643. C. H. WHITE. RAILWAY.

107,644 L. H. WHITNEY. MACHINE
FOR HULLING AND SCOURING
GRAIN, RICE, COFFEE, &c.107,645. D. WORTHEN. RECTIFYING
AND IMPROVING ALCOHOLIC SPIRITS.

4,124. R. DUTTON. HARVESTER.



4,125. R. DUTTON HARVESTER.

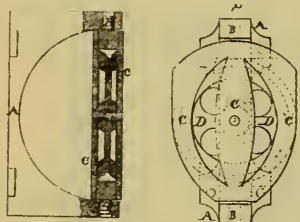
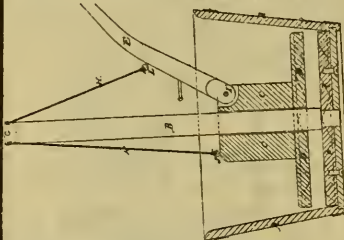
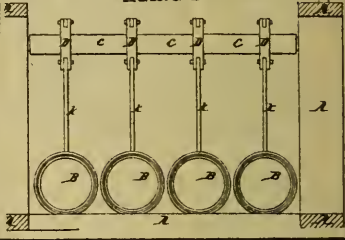
4,126. H. H. ELWELL.
REVERSIBLE KNOB LATCH.4,127. P. F RANDOLPH
POLISHING MACHINE.4,128. J. H. SHIREMAN.
HORSE HAY RAKE.

ILLUSTRATIONS OF PATENTS

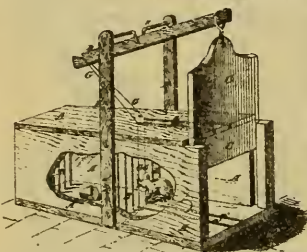
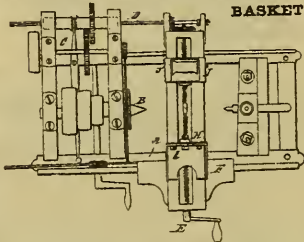
ISSUED FROM

THE UNITED STATES PATENT OFFICE

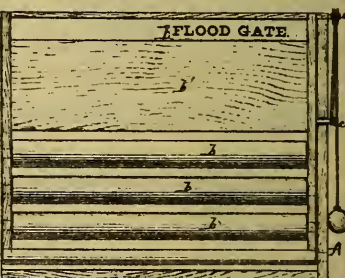
SEPTEMBER 27, 1870.

107.646. E. S. AXTELL.
PULLEY FOR GATES.107.652 J. T. BEVER
WASHING MACHINE.107.658. A. CALDWELL.
AGING SPIRITS.

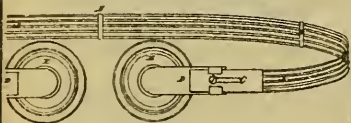
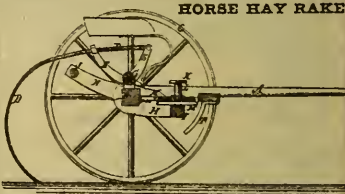
107.647 W. K. BACHMAN MOUSE TRAP

107.653. C. E. BOYNTON.
TOOL FOR CUTTING WOOD MOLDINGS107.654 L. H. BRIDGEMAN MACHINE
FOR CUTTING MATERIAL FOR
BASKETS

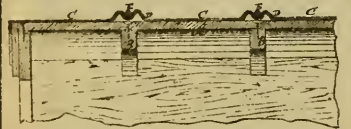
107.659 J. CAMPBELL AND A. WATSON



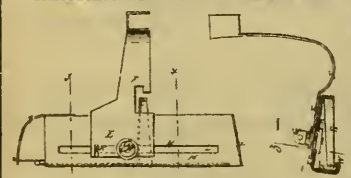
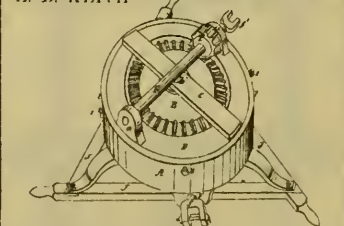
107.648. W. BAKER. TRUSS.

107.660. G. E. CARLETON.
HORSE HAY RAKE.

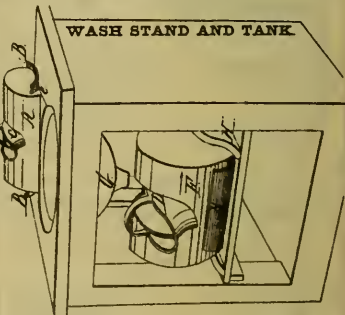
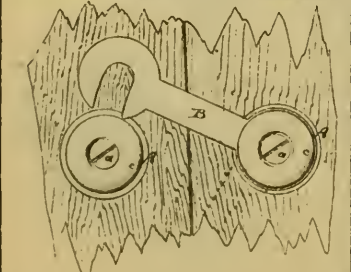
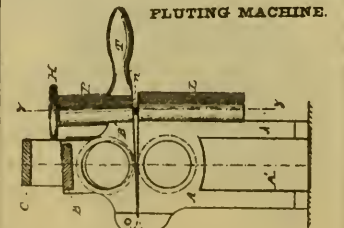
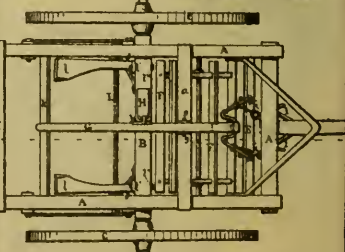
107.649 W. M. BARRY METALLIC ROOF



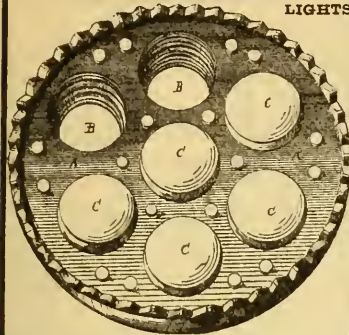
107.655. J. C. BRIGGS. MELODEON.

107.650. A. H. BARTLETT.
HEMMER FOR SEWING MACHINES107.656. H. A. BROWN AND
E. B. KEITH COUPLING JACK.

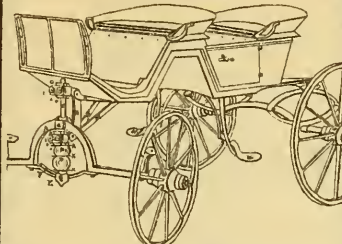
107.661. H. W. CATLIN.

107.651. J. BERBECKER.
SHUTTER FASTENING.107.657. S. G. CABELL.
PLUTING MACHINE.107.662. M. CAYWOOD.
STALK CUTTER.

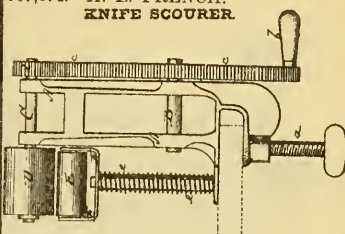
107,663. Z. COBB. MODE OF INSERTING GLASS IN VAULT LIGHTS



107,665C. CUSTER CARRIAGE GEARING



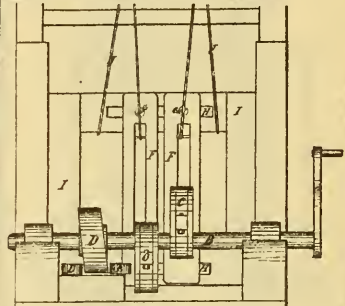
107,674. H. E. FRENCH. KNIFE SCOURER.



107,669. C. DANN JOINTED OAR.



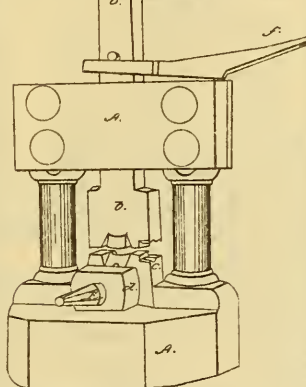
107,675. J. E. FRENCH AND J. M. STEPHENSON. MACHINE FOR SAWING MARBLE.



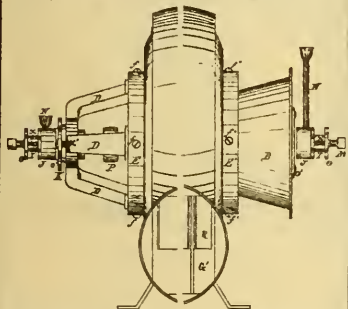
107,664B. CODDINGTON TIN ROOFING.



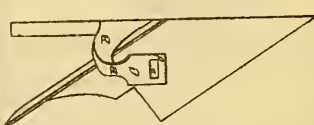
107,670. N. DEXTER. MACHINE FOR SHAPING THE HEADS OF HORSESHOE NAILS



107,665. W. S. COLWELL. BLOWER.

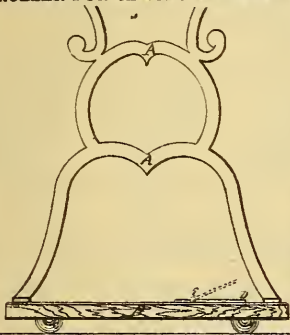


107,676. D. FULTON. FLOW.

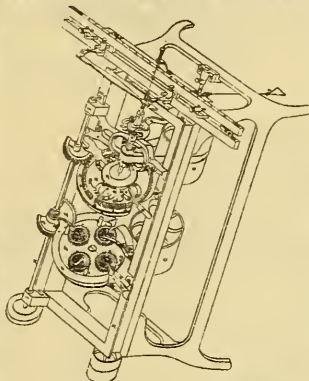


107,666. R. W. COURTS.

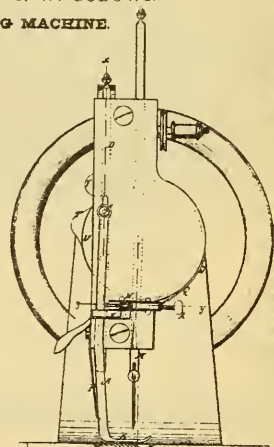
ROLLER FOR SEWING MACHINES.



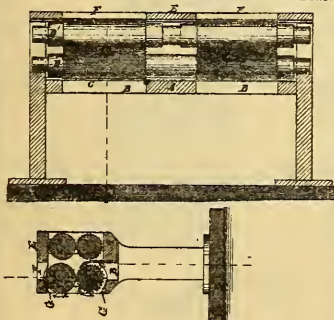
107,671. F. DOUGLAS. BLIND SLAT TENONING MACHINE.



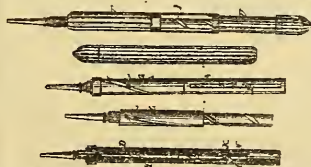
107,677. C. W. GODOWN. SEWING MACHINE.



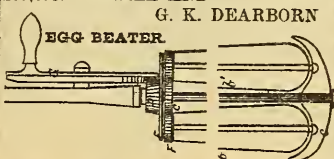
107,667. L. CRAWFORD. WIPING APPARATUS FOR FEED AND OTHER ROLLERS.



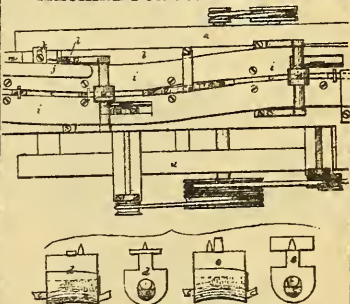
107,672C. H. DOWNES. PENCIL CASE.



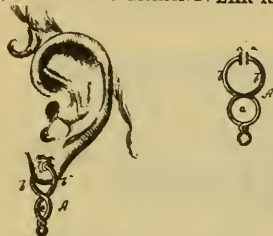
107,673. T. EARLE AND G. K. DEARBORN. EGG BEATER.



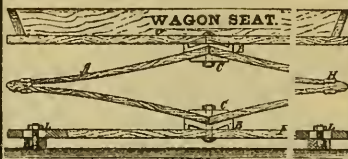
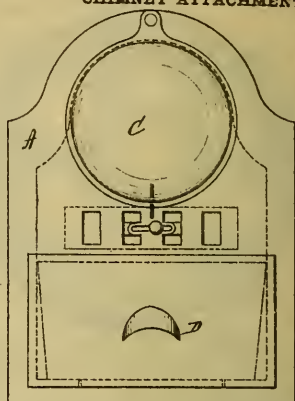
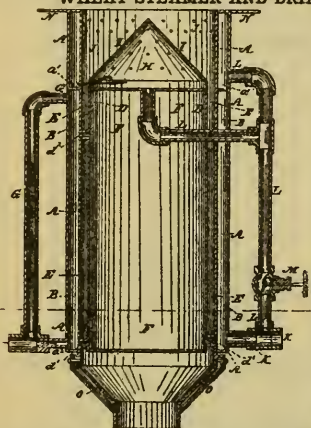
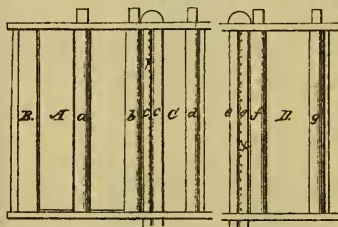
107,678. S. S. GRAY. MACHINE FOR JOINTING STAVES.



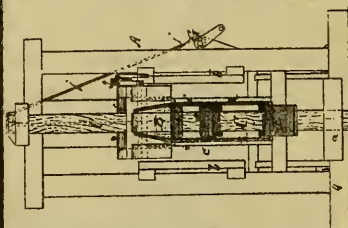
107,679. G. HABERLAND. EAR RING.



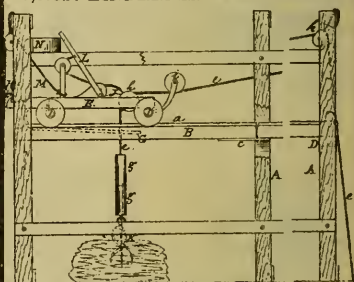
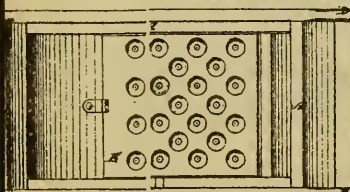
107,684. C. F. HOLLENBECK.

107,685. F. H. HOLTON.
CHAIR AND FURNITURE TIP107,694. A. H. LANPHEAR.
CHIMNEY ATTACHMENT107,690. C. T. HANNA
WHEAT STEAMER AND DRIER107,686. E. P. HUDSON APPARATUS
FOR PREPARING PARCHMENT
OR WATER PROOF PAPER107,687. E. P. HUDSON
MANUFACTURE OF RUBBER COATED
PARCHMENT PAPER

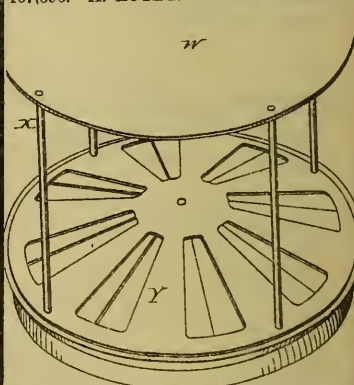
107,688. W. ILER. BALING PRESS.



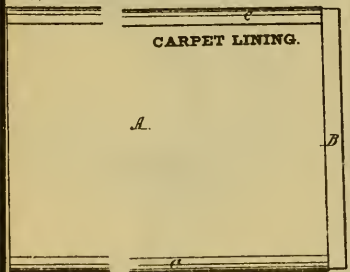
107,695J. LINDERMAN HAY ELEVATOR

107,681. E. S. HARPER.
WASHING MACHINE.

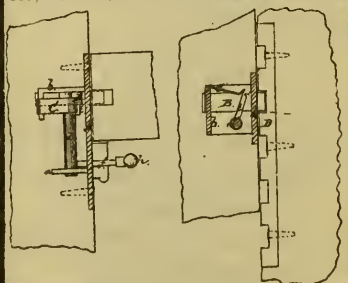
107,696. A. LOTZE. HEATING STOVE.



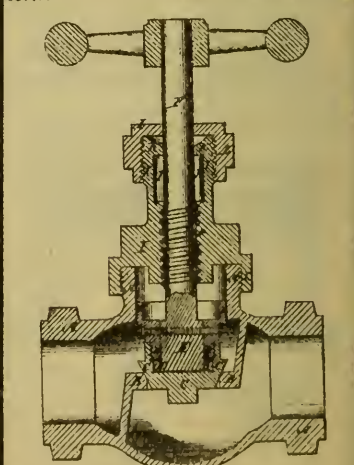
107,682. J. R. HARRINGTON.

107,689. G. JAUQUES.
METHOD OF PRESERVING FRUIT.107,690. G. JAUQUES.
COMPOSITION OF MATTER FOR
PRESERVING FRUIT FROM DECAY.

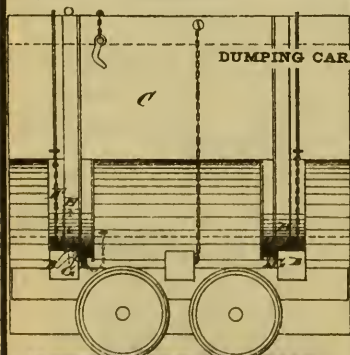
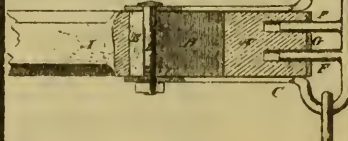
107,691. W. F. KELLS. SASH HOLDER



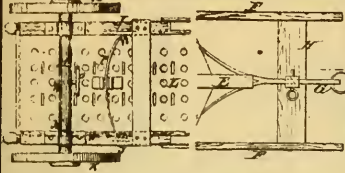
107,697J. C. MACDONALD. VALVE COCK



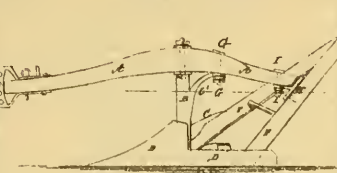
107,683. E. C. HEGELER.

107,692. G. W. KIDWELL.
ATTACHING DRAFT TO PLOWS.107,693. W. W. KILBOURN
CHEWING GUM

107,698 G. M. MARKS. POTATO DIGGER.

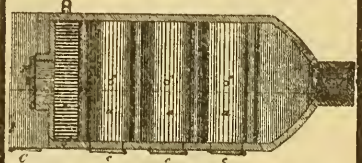


107,705. D. MORRIS. FLOW.

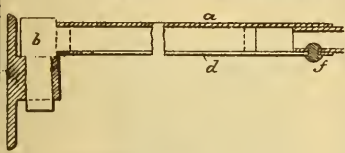


107,711 A. OTT TREATING TIN SCRAP FOR THE MANUFACTURE OF STANNATE OF POTASH, &c.

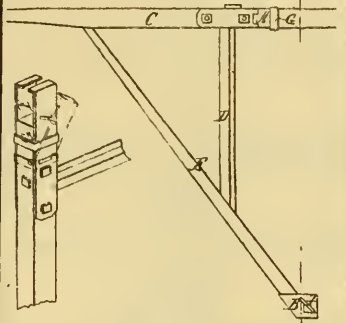
107,712. A. OTT. FURNACE FOR SMELTING SCRAP IRON



107,699. R. MARSH. LAMP BRACKET.

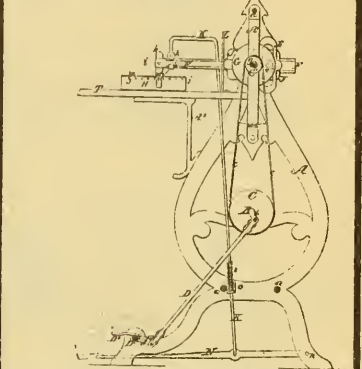
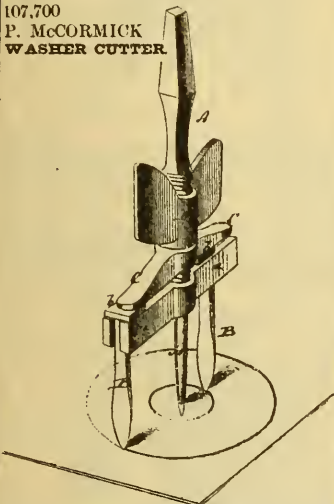


107,706 C. MUDGESCAFFOLD BRACKET

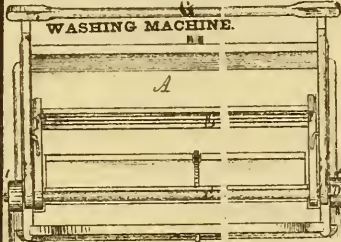


107,713. C. F. PANKNIN. TANNING.

107,714. C. F. PARKER. IRONING MACHINE.

107,700
P. McCORMICK
WASHER CUTTER

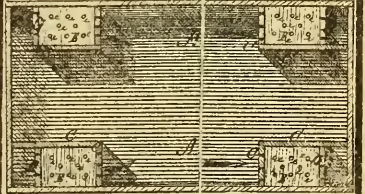
107,707. A. MUTERSBAUGH.



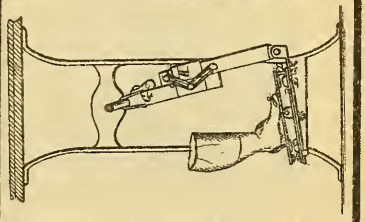
107,715 A. L. PENNOCK FURNACE GRATE



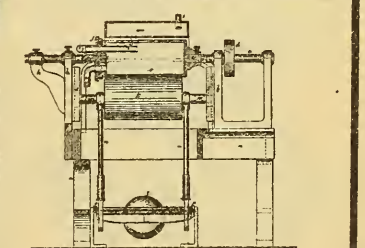
107,716. W. E. PHELPS. CAR VENTILATOR AND REFRIGERATOR



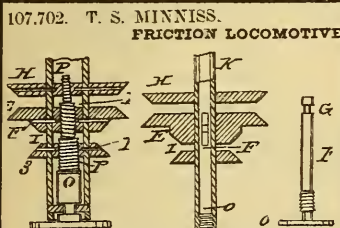
107,717. B. C. POLE. TREADLE FOR SEWING AND OTHER MACHINES.



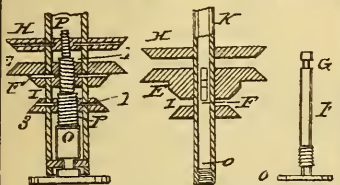
107,718. T. T. PONSONBY MACHINE FOR ORNAMENTS THE SURFACE OF WOOD, &c.



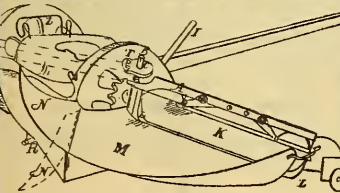
107,701 E. McILHENNY PEPPER SAUCE



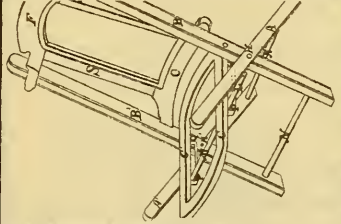
107,702. T. S. MINNISS. FRICTION LOCOMOTIVE



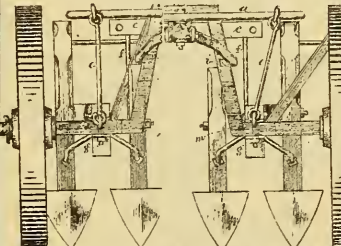
107,703. T. S. MINNISS. GRAIN BINDING ATTACHMENT FOR HARVESTERS.



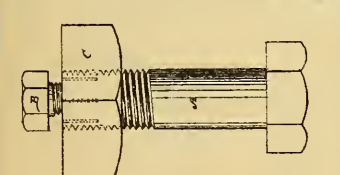
107,708. J. NICOLAI. FOLDING CHAIR.



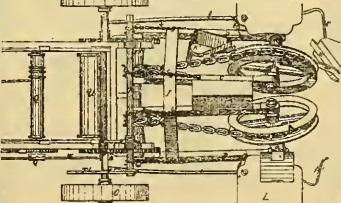
107,709. H. C. OSBORN. CORN FLOW AND PLANTER.

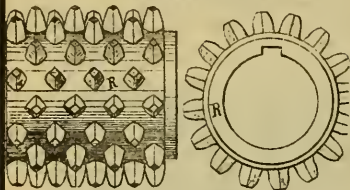


107,704. J. MOORCROFT. NUT LOCK

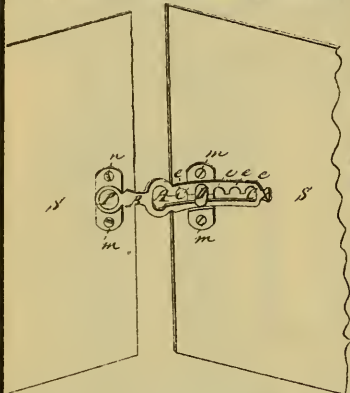


107,710. J. C. OSGOOD. DITCHING MACHINE.

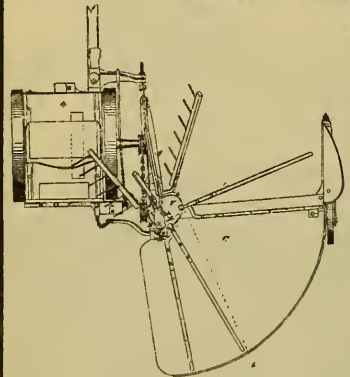
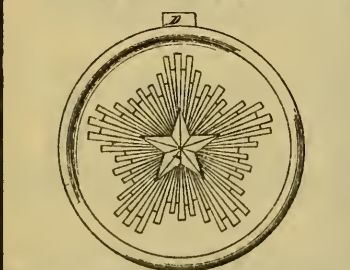
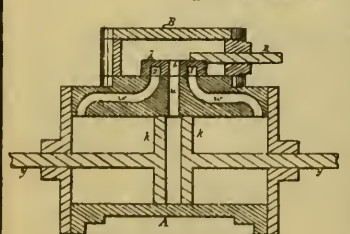
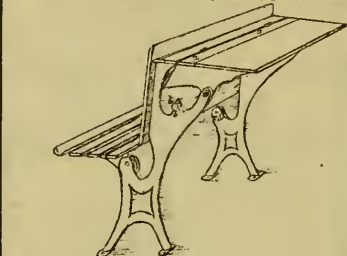


107,719. T. C. PURINGTON.
STEERING APPARATUS.

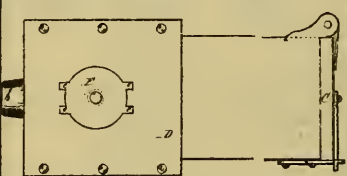
107,720. J. PUSEY. SHUTTER FASTENING.



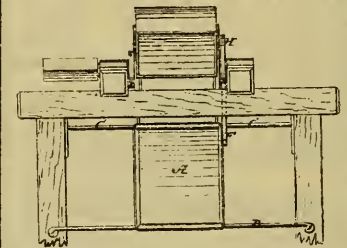
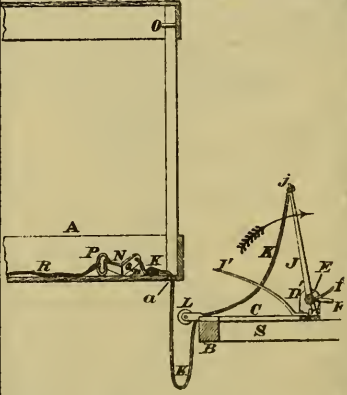
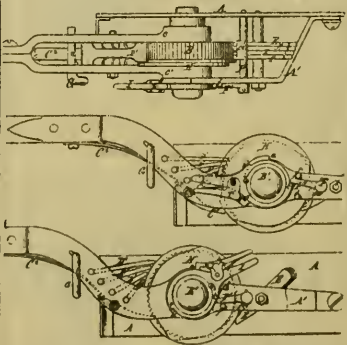
107,721. A. RANK. HARVESTER RAKE.

107,722. J. A. READ.
COVER FOR STOVE PIPE HOLES.107,723. W. F. RICHARDSON.
STEAM ENGINE.107,724. A. E. ROBERTS.
HINGE FOR SCHOOL DESKS.

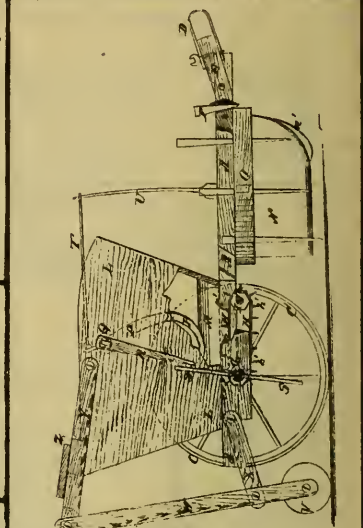
107,725. J. ROGERS. TUYERE.



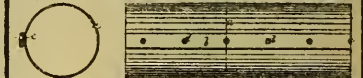
107,726. T. H. RUDIGER. ELEVATOR.

107,727. A. SCHMITT.
HORSE DETACHING DEVICE.107,728. G. SELDEN.
HEAD BLOCK FOR SAW MILLS.107,729. F. B. SHEARER. PROCESS OF
UNITING RUBBER WITH WOOD.

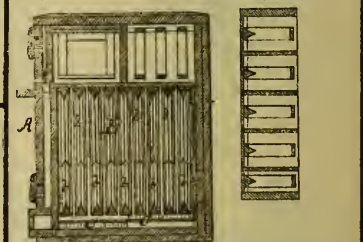
107,730. F. SLOAN. COTTON SEED PLANTER.



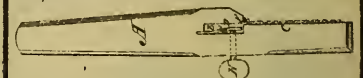
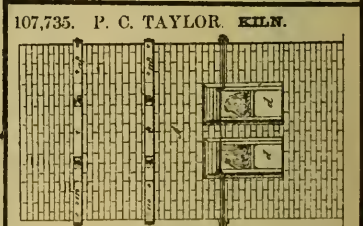
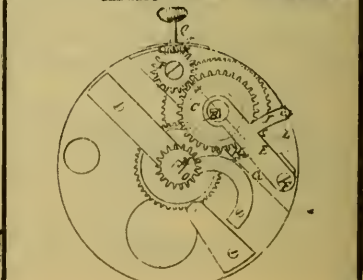
107,731. C. G. SMITH. METALLIC TUBING.



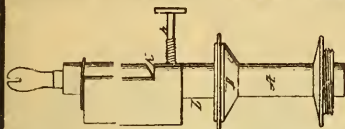
107,732. J. L. SMITH. BEE HIVE.



107,733. W. A. SMITH. SAW SET.

107,734. W. SPEARS.
MANUFACTURE OF HYDROCARBON OIL.107,736. F. R. THEURER.
STEM WINDING AND SETTING
ATTACHMENT TO WATCHES.

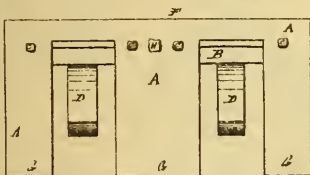
107,737 W. THOMPSON VAPOR BURNER



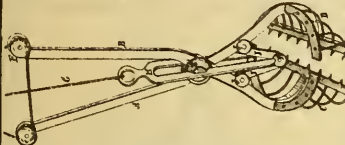
107,738 J. T. THOMPSON SNAPPER CLEAT



107,739 E. VON JEINSEN LUBRICATOR

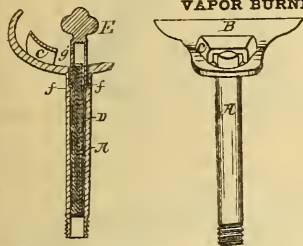


107,740 E. WARD. OYSTER TONGS

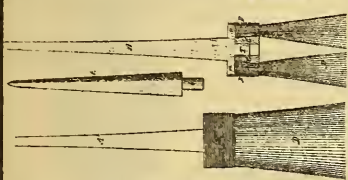


107,741 H. WELLINGTON

VAPOR BURNER

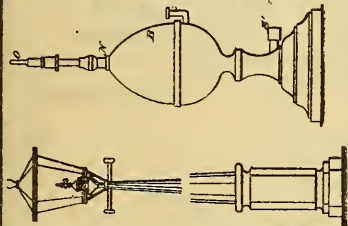


107,742 J. L. WHITING. BRUSH



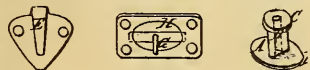
107,743 S. WHITNEY.

GAS CARBONIZING ATTACHMENT FOR STREET AND OTHER LIGHTS.

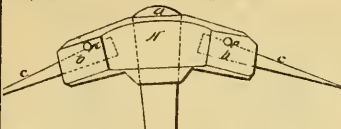


107,744 W. A. WICKS.

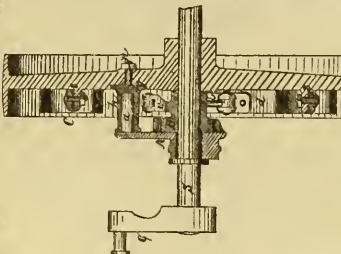
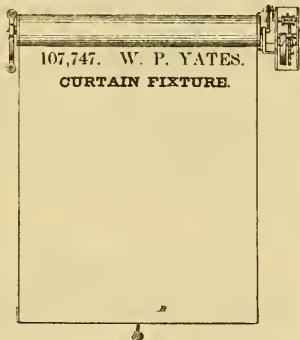
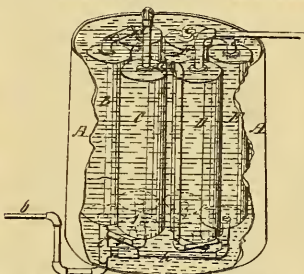
FASTENING FOR NECKTIES.



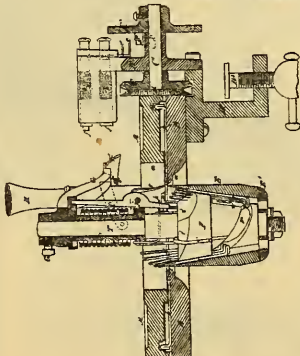
107,745 S. G. WILLIAMS MILL PICK



107,746 D. A. WOODBURY AUTOMATIC CUT-OFF FOR STEAM ENGINES

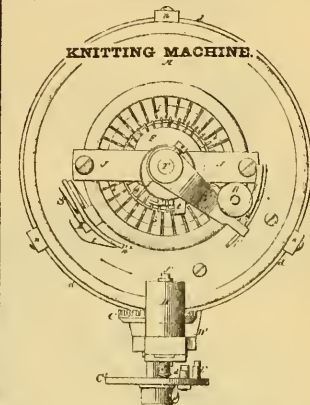
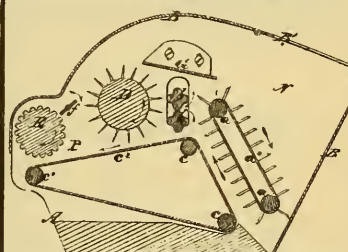
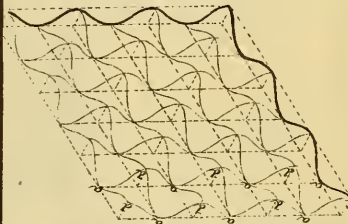
107,747 W. P. YATES.
CURTAIN FIXTURE.107,748 H. ANDERSON
STEAM ENGINE CONDENSER.

107,749 C. J. APPLETON KNIT FABRIC.

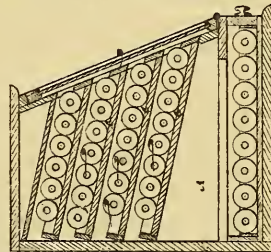


107,750 C. J. APPLETON.

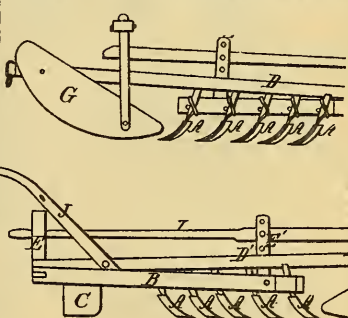
KNITTING MACHINE.

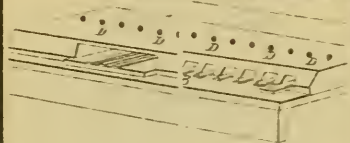
107,751 J. W. BARBOUR. FEEDING
DEVICE FOR CARDING MACHINES107,752 S. BARKER AND H. S. PRATT
ROLLED SHEET IRON.

107,753 M. M. BELDING SHOW CASE

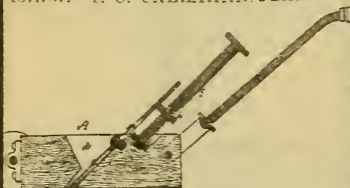
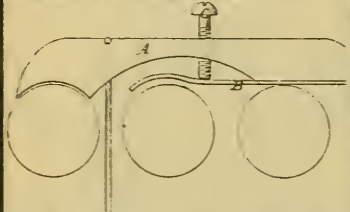


107,754 V. BOLIS CULTIVATOR PLOW.

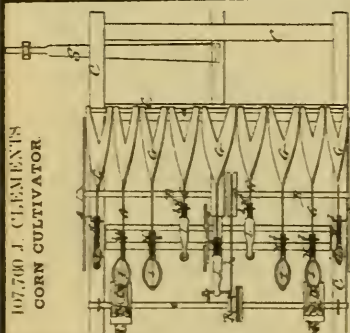
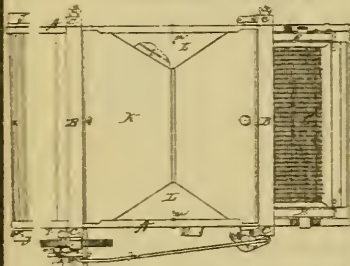
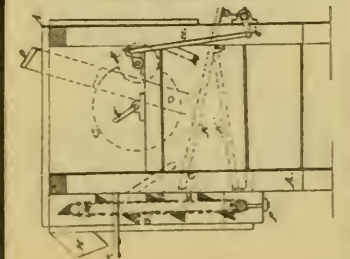
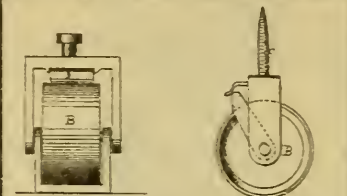


107.755. R. BURDETT.
REED BOARD FOR ORGANS.107.756. C. BURGESS. CEMENT
WALK PAVEMENT. AND ROAD.

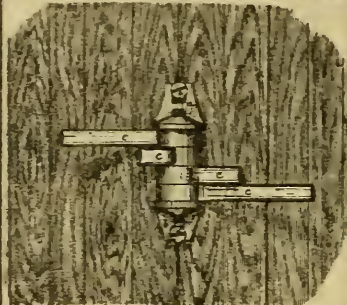
107.757. T. O. CALLAHAN. PLANE.

107.758. J. S. CASEY.
SADDLE FOR SPINNING MACHINES. &c

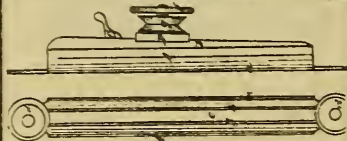
107.759. G. E. CLARKE FANNING MILL.

107.760 J. CLEMENTS
CORN CULTIVATOR.107.761 G. S. COLEMAN
CORN SHELLER. &c107.762 W. COUGHLIN ADJUSTABLE
STOP FOR CASTERS FOR STOVE LEGS.

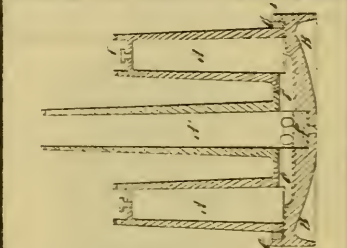
107.763. L. CUTTING CLOTHES DRIER



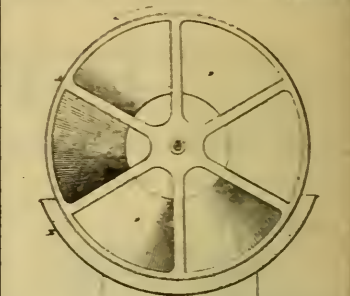
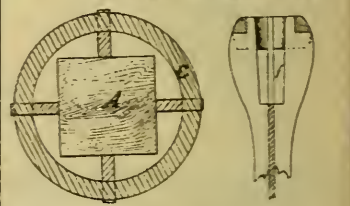
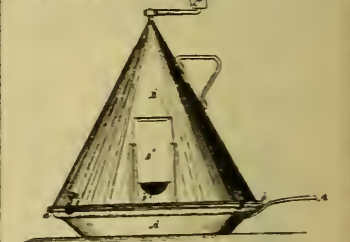
107.764. J. DOYLE CURTAIN FIXTURE.

107.765. P. N. DRAKE AND
D. DRUMMOND. SPLINT PLANE.

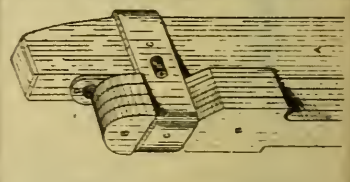
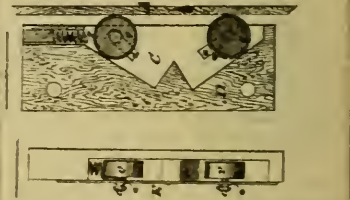
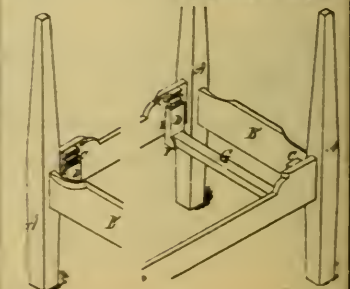
107.766. Z. S. DURFEE. INGOT MOLD.

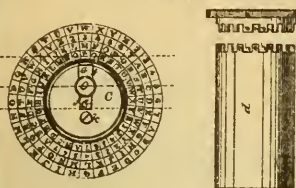
107.767 H. A. EVERTS
REMOVABLE SHOE LINING107.768 U. FARIS AND A MILLER
GRINDSTONE OR TOOL SHARPENER

107.769 W. FISCHER LIQUID METER.

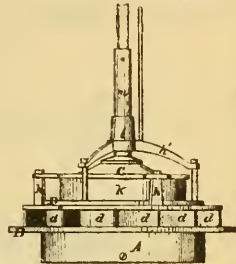
107.770. W. FULKERSON.
SETTING OF FENCE POSTS.107.771. H. M. GILBERT.
COFFEE ROASTER.

107.772 J. M. GOTHAM PICKER COLLAR

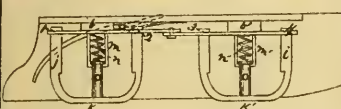
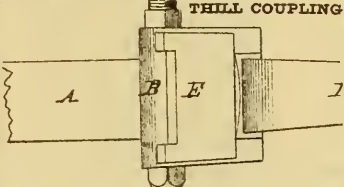
107.773. P. W. GREENWOOD.
SASH HOLDER.107.774. T. B. GREGORY.
BEDSTEAD CLAMP.

107,775. W. N. HALL.
PERMUTATION LOCK.107,780. R. A. HUTCHINSON.
GRATE FOR FURNACES.

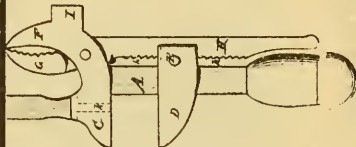
107,789. D. LANE. WATER WHEEL.



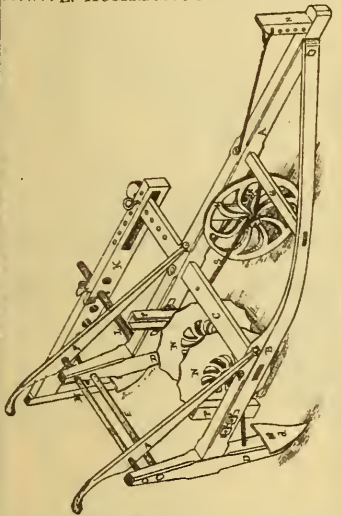
107,776. B. E. HEMINWAY. SLED.

107,781. R. A. JACKSON CONVERTING
CAST IRON AND CAST IRON
ARTICLES INTO STEEL.107,782. J. H. JENINGS.
THRILL COUPLING.

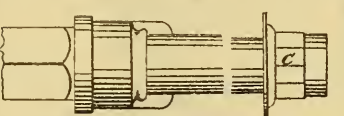
107,790. O. C. LAWBAUGH WRENCH.



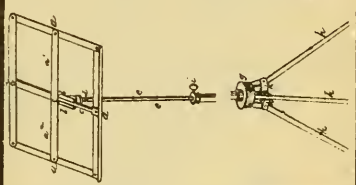
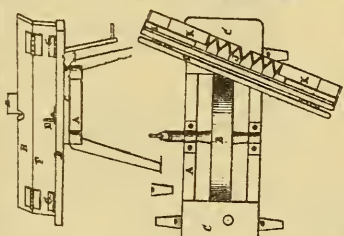
107,777 L. HOMRIGHOUSE CULTIVATOR



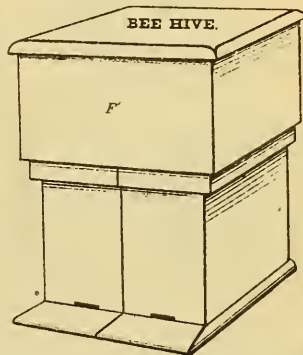
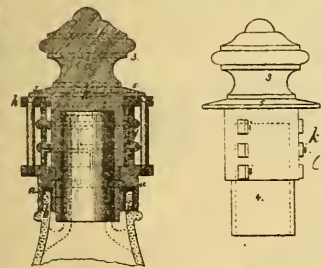
107,783 H. KILLAM. CARRIAGE AXLE.



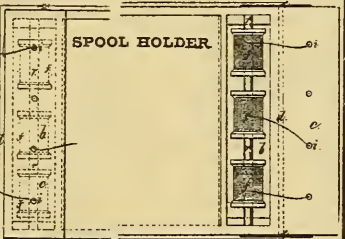
107,791. C. LEHNERT. MUSIC STAND.

107,784. T. E. KING HARVESTER
CUTTER HOLDER FOR GRINDERS.

107,792. J. LEFFEL AND E. HARRISON

107,778. J. T. HOUGH.
LOCKING CAP FOR BOTTLES107,785. J. KNIGHT
WHIFFLETREE HOOK

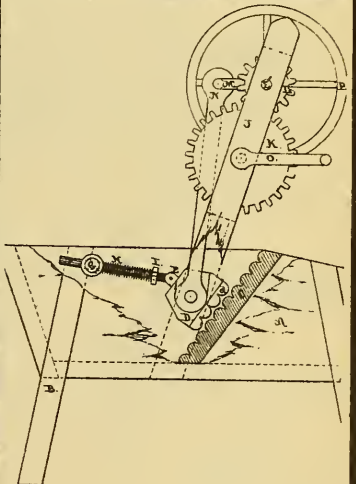
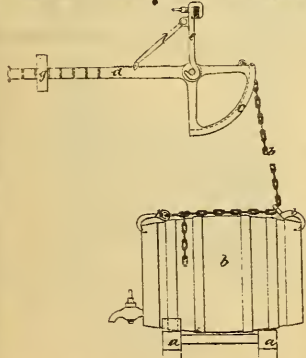
107,786. J. C. KOCH AND R. J. BECK

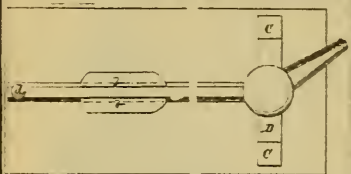
107,787. H. KOEHLER MANUFACTURE
OF SPIRITS FROM STARCH

107,788. J. L. KRETZER PITMAN HEAD

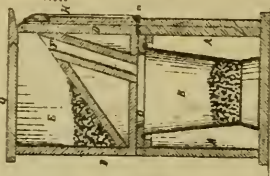


107,793. G. LIEB. WASHING MACHINE

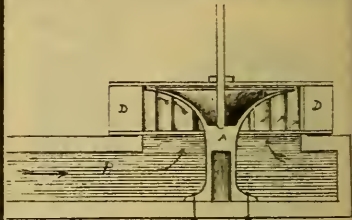
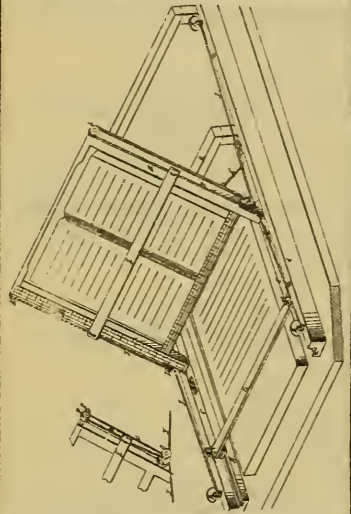
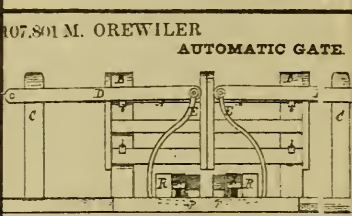
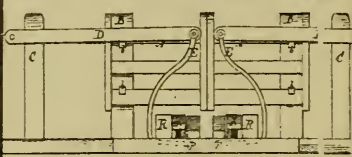
107,779 L. HUDSON AND W. MINSHALL
SELF ACTING TILT FOR BARRELS.

107,794 B. J. McFEELY
APPLE CORER AND QUARTERER

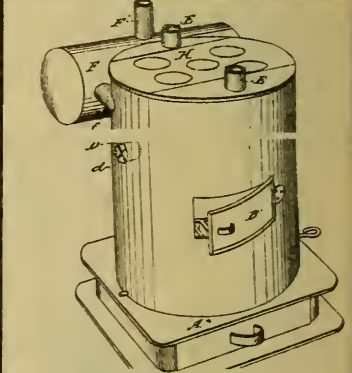
107,799 W. H. NEWTON EARTH CLOSET



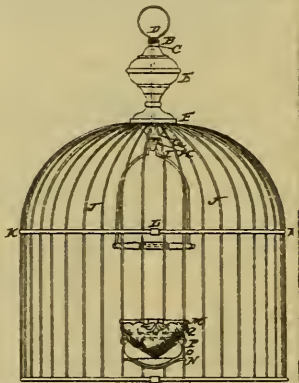
107,805. E. PARKER WATER WHEEL.

107,795 G. McHENRY MACHINE
FOR RULING AND COPYING107,800. P. NORDEN AND H. MISCHIO
DYEING FURS.107,801 M. OREWILER
AUTOMATIC GATE.

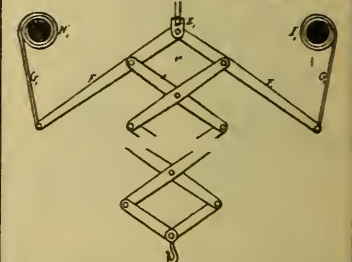
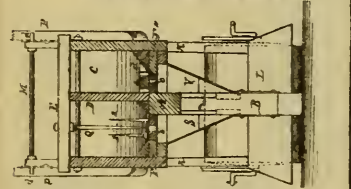
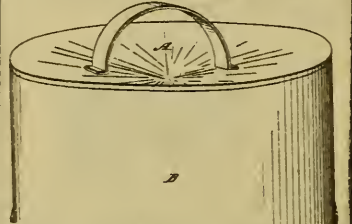
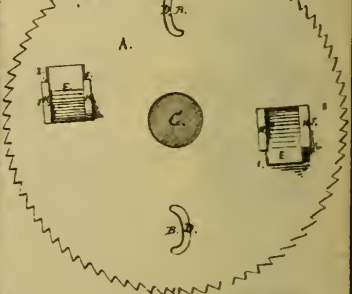
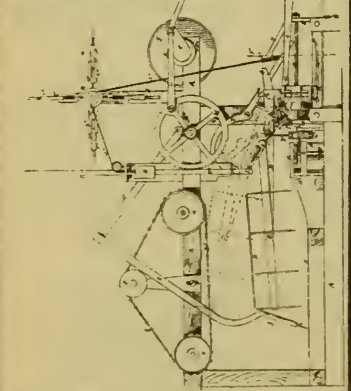
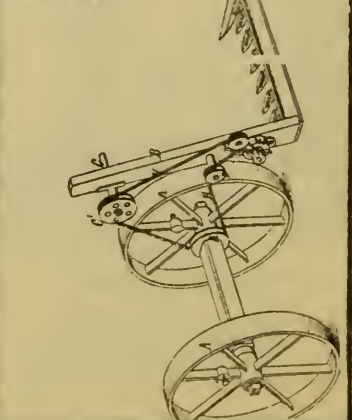
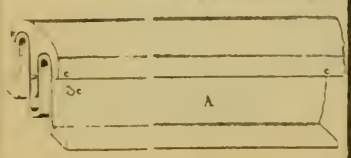
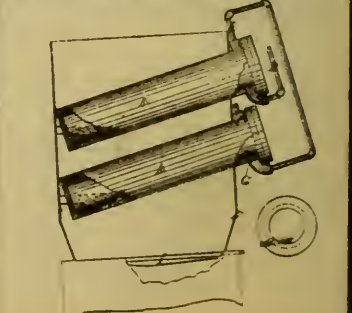
107,806. N. PARRISH HEATING STOVE.



107,802. G. R. OSBORN BIRD CAGE.



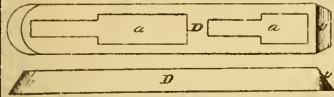
107,807 N. PARRISH HOISTING MACHINE

107,796. D. McKELLAR.
PLANTER AND DISTRIBUTER107,803. L. B. OVIATT.
COVER FOR COOKING UTENSILS.107,808. J. PHILLIPS.
SAW.107,797
D. McPHERSON
GRAIN BINDER107,804.
C. N. OWEN
HARVESTER REEL107,798. R. MONTGOMERY.
RAILWAY RAIL.107,809. E. A. AND G. H. POND AND
M. S. RICHARDSON. MANUFACTURE
OF ILLUMINATION GAS

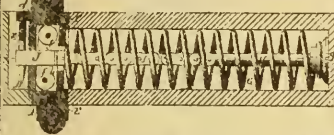
107,810. W. PORTER MANUFACTURE
OF FRICTION MATCH CIGAR LIGHTER

107,811. E. PREVOST
LIQUID FOR GALVANIC BATTERIES.

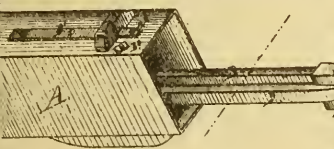
107,812. C. D. PURDY
BEDSTEAD FASTENING.



107,813. A. RANKIN.
SPRING HINGE FOR DOORS, &c.

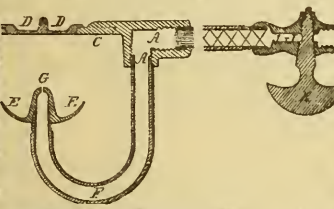


107,814. B. R. ROSE. CAR COUPLING.

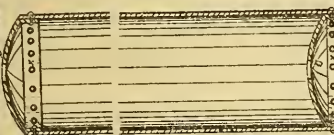


107,815. A. RUTTKAY MANUFACTURE
OF ASPHALTIC COMPOSITION FOR
PAVEMENTS, ROADS, &c.

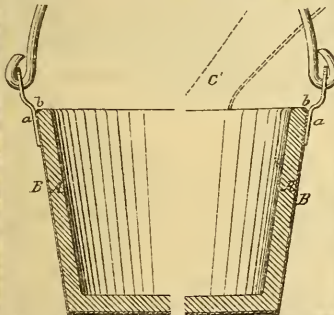
107,816. D. E. RYAN. VAPOR
GENERATING BURNER FOR STOVES.



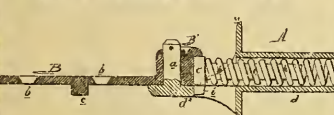
107,817. W. B. SCAIFE KITCHEN BOILER



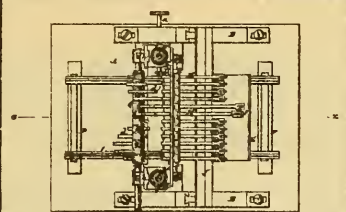
107,818. F. SCHIFFERLE SAUCEPAN.



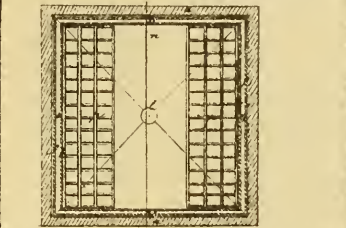
107,819. A. F. SCHIFFLING
SPRING HINGE FOR DOORS, &c.



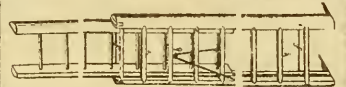
107,820. C. F. SCHLICKEYSEN
STONE WORKING MACHINE.



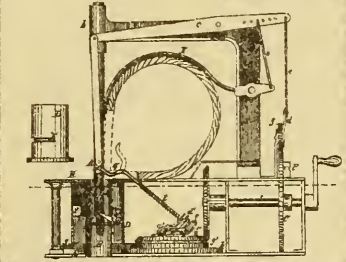
107,821. S. R. SCOGGINS.
REFRIGERATOR.



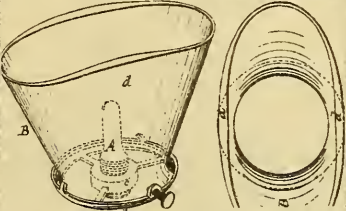
107,822. J. W. SCOTT EXTENSION LADDER



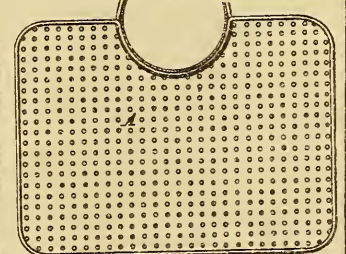
107,823. A. SCRIBNER GRAIN BINDER



107,824. I. W. SHALER.
SHIELD FOR GAS BURNERS.



107,825.
J. H. SHAUT
STOVE PIPE SHELF



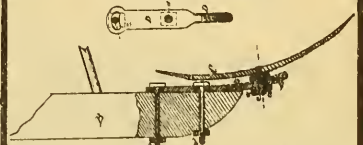
107,826. L. F. SMITH LUBRICATOR.



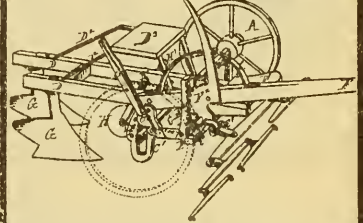
107,827. W. H. SMITH SHOVEL.



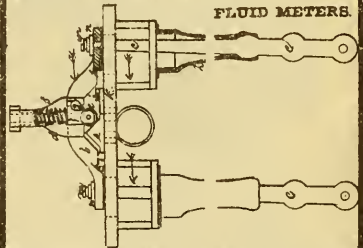
107,828. C. SNYDER. PLOW.



107,829. N. SPENCER, JR. GANG PLOW



107,830. D. B. SPOONER DEVICE FOR
ACTUATING THE VALVES OF



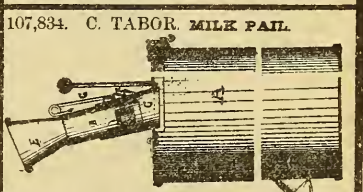
107,831. STOCKTON AND J. SCHEPLER
CORPSE PRESERVER.



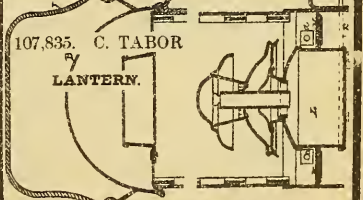
107,832. J. C. STODDARD.
HORSE HAY RAKE.



107,833. J. STUART. SEPARATING
ANIMAL FROM VEGETABLE FIBRES.

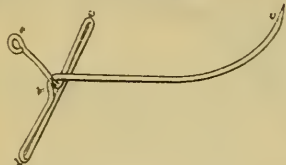


107,834. C. TABOR. MILK PAIL.

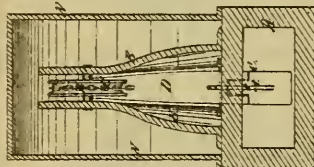


107,835. C. TABOR
LANTERN.

107,836. C. TABOR. PAPER FILE.



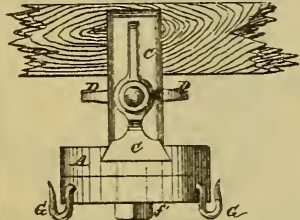
107,837. G. B. TERRY AND W. G. HAWLEY. CAR COUPLING.



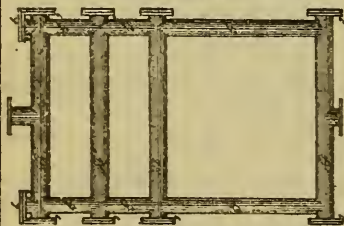
107,838. J. F. WARD. WATER PIPE.



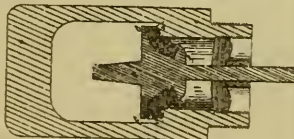
107,839. S. WEAVER. MEAT HOOK.



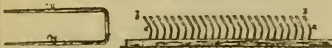
107,840. W. W. R. AND N. WESTON AND B. BRETT. STEAM GENERATOR.



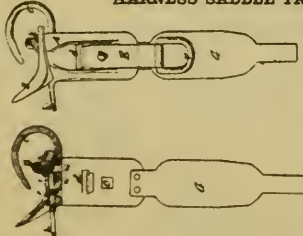
107,841 J. T. WHIPPLE. PUMP VALVE.



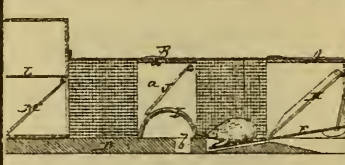
107,842. W. H. WHITING. CARDING MACHINE TOOTH.



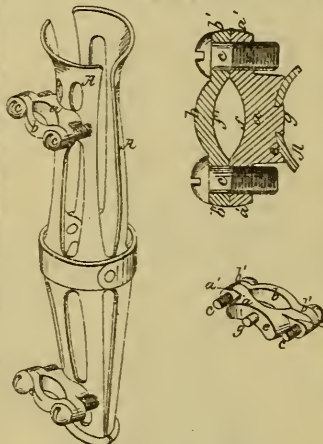
107,843. P. H. WIEDERSUM. HARNESS SADDLE TREE.



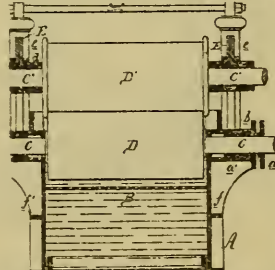
107,844. J. J. WOOD. ANIMAL TRAP.



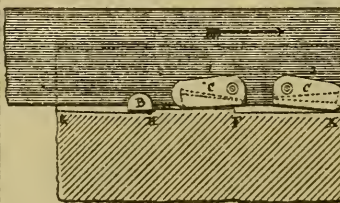
107,845. A. WORDEN. WHIP SOCKET CLASP.



107,846. J. AND W. YEWDALL. WOOL WASHING MACHINE.



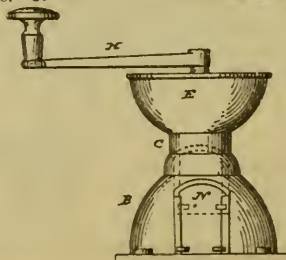
107,847. H. AND J. L. YOUNG. MACHINE FOR CUTTING STONE.



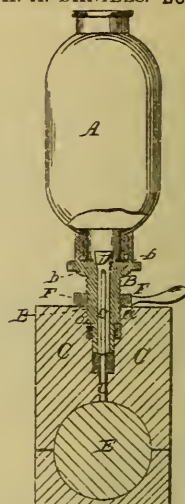
107,848. W. YOUNG AND P. BRASH. MANUFACTURE OF ILLUMINATING GAS.

4,129. W. B. BRITTINGHAM. TANNING AND STUFFING LEATHER.

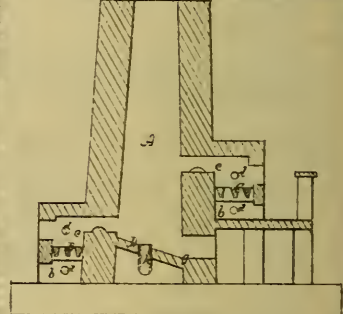
4,130. T. W. BROWN. COFFEE MILL.



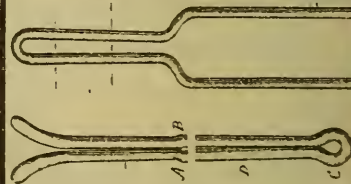
4,131. H. A. DANIELS. LUBRICATOR.



4,132. E. P. HUDSON. FURNACE FOR ROASTING ORES.

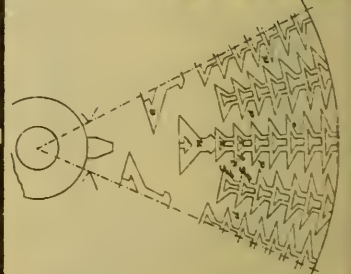


4,133. E. C. PATTERSON. REIN HOLDER FOR CARRIAGES.

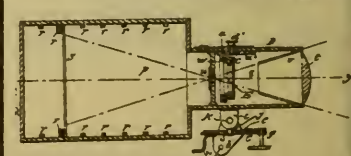


4,134. J. RILEY AND C. W. BISSELL. COMPOSITION FOR COVERING STEAM BOILERS, STEAM PIPES, &c.

4,135 J. SEDGEBEER. MILLSTONE DRESS.



4,136. W. H. MASTERS. SOLAR CAMERA.



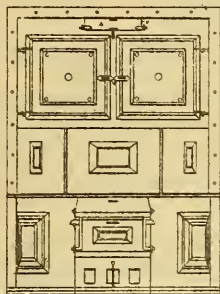
ILLUSTRATIONS OF PATENTS

ISSUED FROM

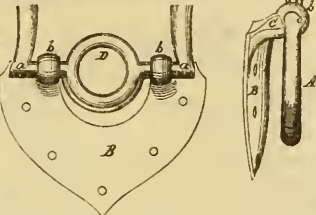
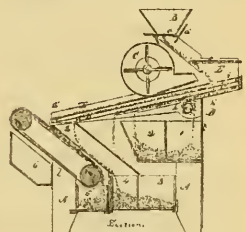
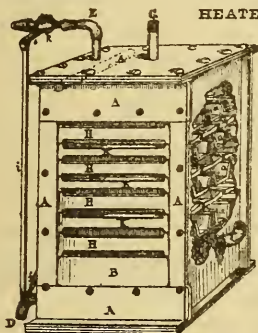
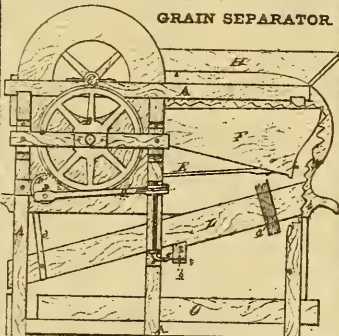
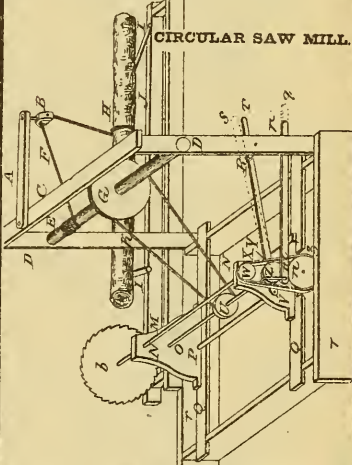
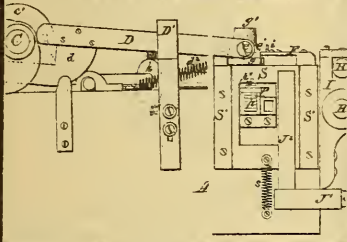
THE UNITED STATES PATENT OFFICE

OCTOBER 4, 1870.

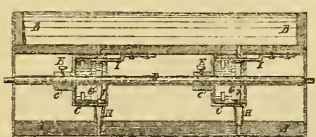
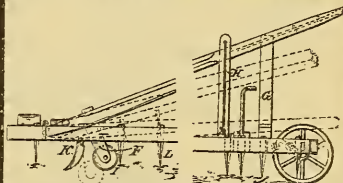
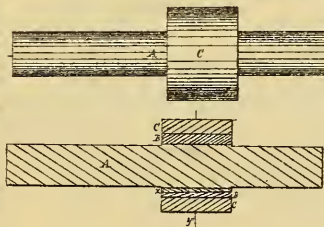
107,849. J. ALBEE. COOKING RANGE.

107,854. H. H. BEACH.
PROCESS FOR SEASONING LUMBER.107,855. A. C. BECKWITH AND
G. H. GRAHAM.

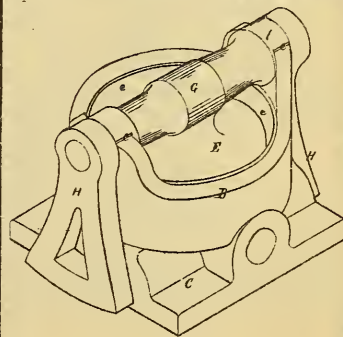
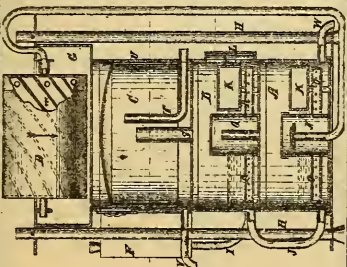
HANDLE FOR MILK CANS.

107,860. N. M. BOWEN.
GRAIN AND SEED CLEANER.107,850. H. ANDERSON FEED WATER
HEATER.107,856. F. A. BEGOLE.
GRAIN SEPARATOR.107,861. W. BOWMAN
CIRCULAR SAW MILL.107,851. J. T. ASHLEY.
PAPER FEEDING APPARATUS.

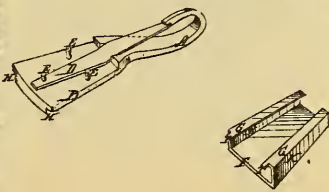
107,857. H. C. BESHLE. CORN PLANTER.

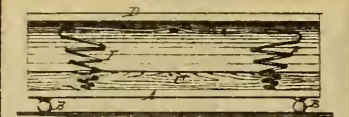
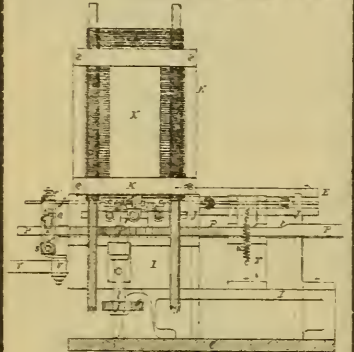
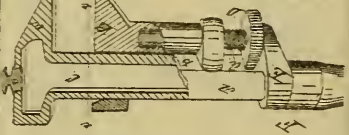
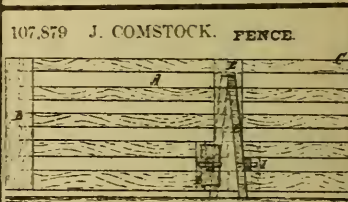
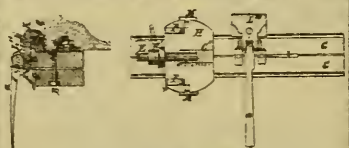
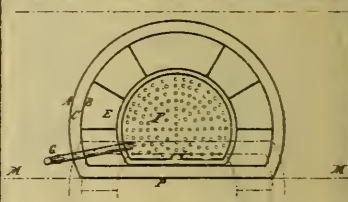
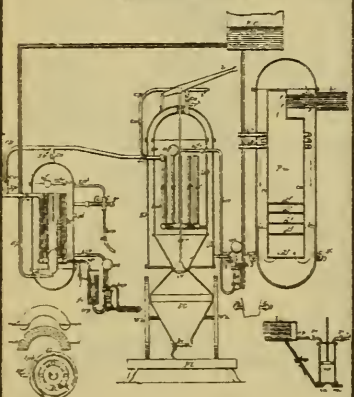
107,862. J. F. BRAUCHER.
COMBINED PLOW AND HARROW.107,852. W. E. BANTA.
DIAPHRAGM STOP COCK.107,858. E. S. BLAKE. ROLL FOR
CRUSHING AND PULVERIZING
MACHINES.

107,863. G. B. BRAYTON. SLIDE VALVE.

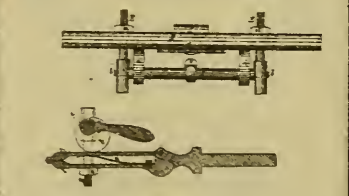
107,853. J. L. BARTLETT.
GAS CARBURETER.

107,859. D. J. BLASIR. SNAP HOOK.

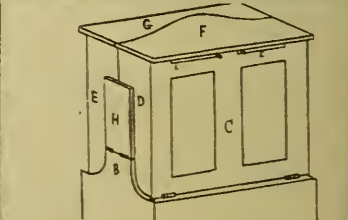
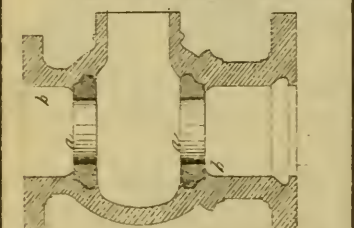
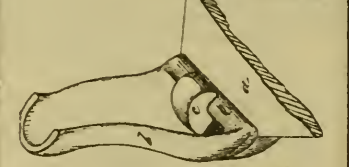
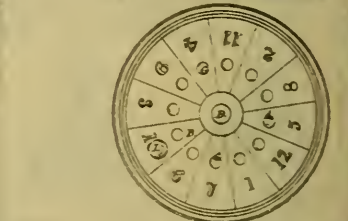
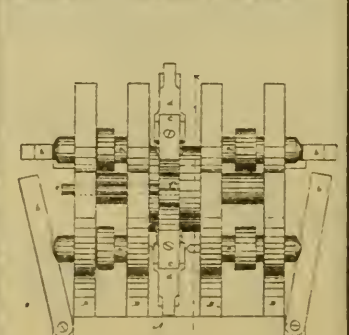


107,864. W. N. BROOKHOUSE.
MANUFACTURE OF BOOTS AND SHOES107,869. L. BURNELL.
NURSERY FOOTSTOOL107,876. J. S. CLARK.
RANGE FOR HEATING AND COOKING.107,865. J. BROWNING.
REED SETTING MACHINE107,871 D. CAMPBELL AND W. SAUL.
WRENCH107,877 H. W. CLOUD
MEDICAL COMPOUND.107,878. J. COMMINS.
MANUFACTURE OF FERTILIZERS.107,872 H. D. CHANCE AND D. RISHEE
SAW FILING AND SETTING MACHINE.107,880. L. R. COMSTOCK
WATER COOLER AND REFRIGERATOR.107,866. J. R. BUCHANAN.
MANUFACTURE OF SALT.

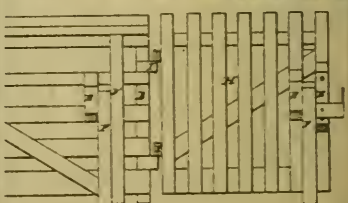
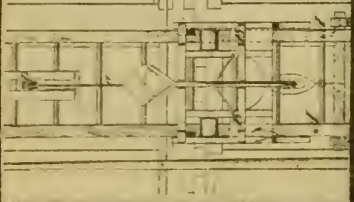
107,873. J. CHAVANNE. VISE.



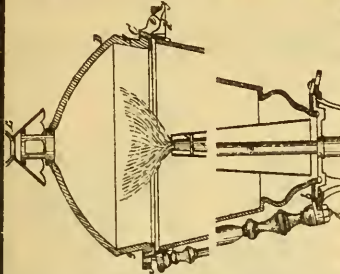
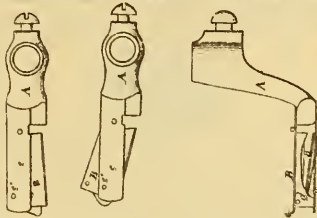
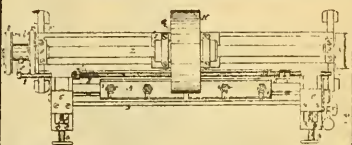
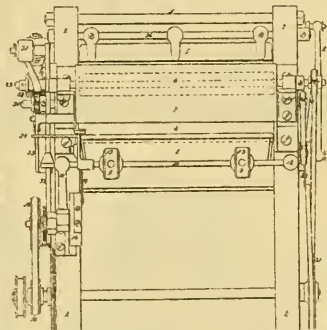
107,881 M. CROSBY PARLOR BEDSTEAD.

107,867. J. K. BURKE. CASTING
VALVE CHAMBERS AND SEATS.107,874. S. E. CHUBBUCK
STOVE LEG107,882. A. H. CROZIER AND
M. TAYLOR ROULETTE.107,875. J. B. CLARK MACHINE FOR
DRILLING CARRIAGE SHACKLES.

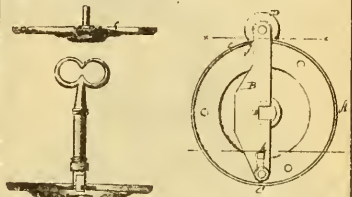
107,883. W. CRUMB PORTABLE FENCE

107,868. L. BURNELL. HOISTING
APPARATUS.

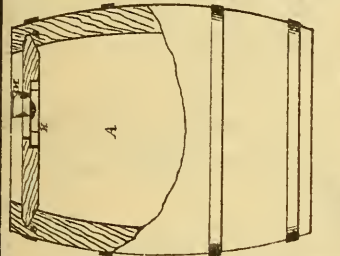
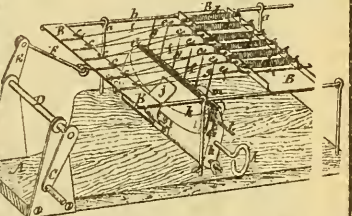
107,884. G. CUPPERS. STREET LAMP.

107,889. J. V. D. ELDREDGE.
HEMMER FOR SEWING MACHINES.107,894. E. S. M. FERNALD.
KNIFE GRINDING MACHINE.107,890P. C. EVANS AND H. J. H. KING.
WEIGHING ATTACHMENT
FOR CARDING MACHINE FEEDERS.

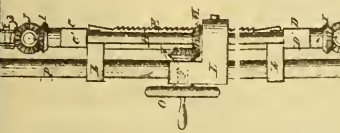
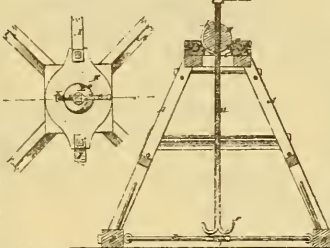
107,895. J. W. FIFIELD. SAFETY LATCH.



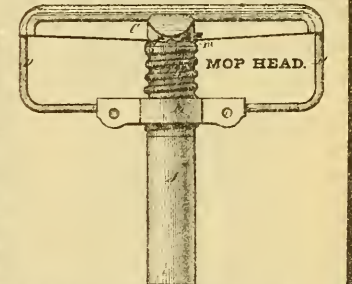
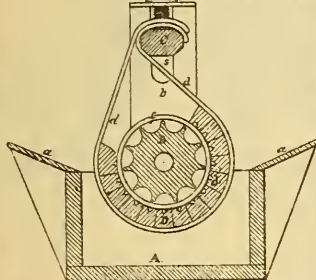
107,885. R. DE BARÈ. BARREL HEAD.

107,896. T. FOWLER.
MACHINE FOR POLISHING THE
EYES OF SEWING MACHINE NEEDLES.

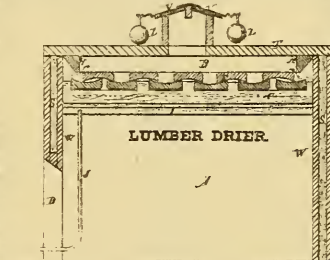
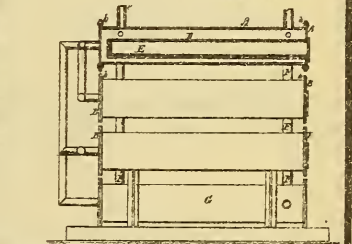
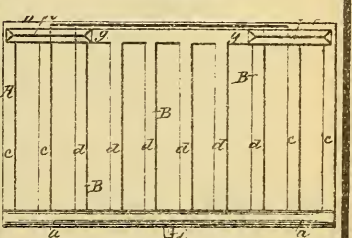
107,886. J. A. DORR. SAW MILL.

107,891 J. M. FERGUSON
STUMP PULLER.

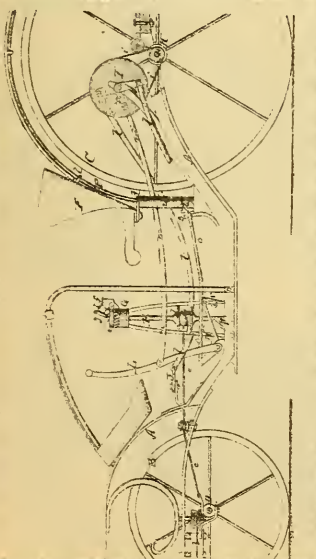
107,897. O. S. AND J. G. GARRETSON.

107,887. J. T. EARLE. MACHINE FOR
FELTING AND HARDENING
HAT BODIES.

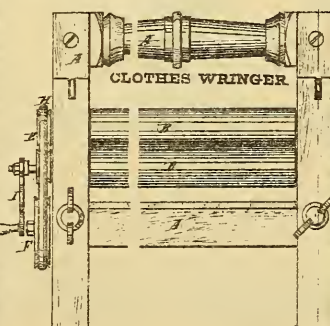
107,892. R. E. FERGUSON.

107,898. J. F. GESNER.
MANUFACTURE OF ICE.107,899. F. GLICK AND U. KECK
GRATE.

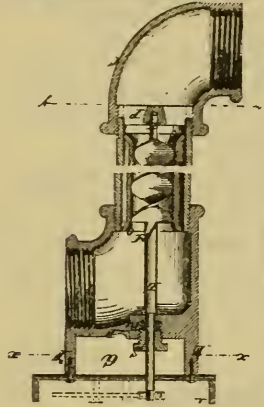
107,888. J. EGGERT. VELOCIPEDE.



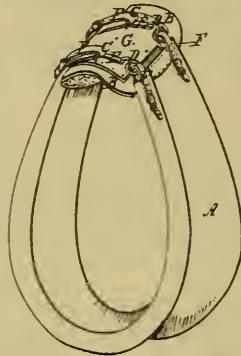
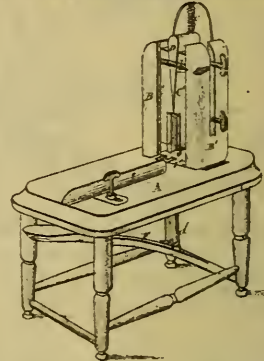
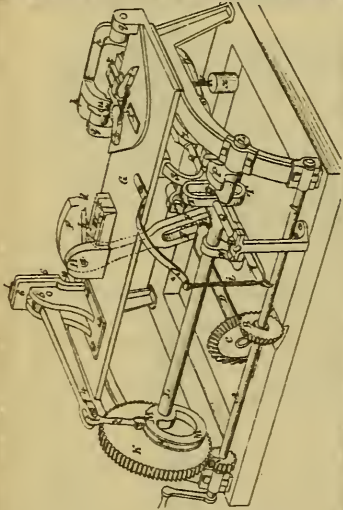
107,893. R. E. FERGUSON



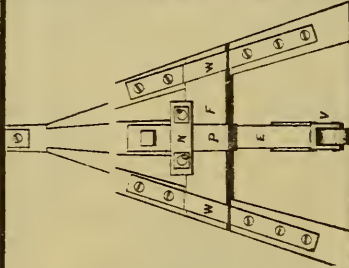
107,900. J. W. GROAT WATER METER

107,904 J. R. HAYES.
PRESERVING WOOD

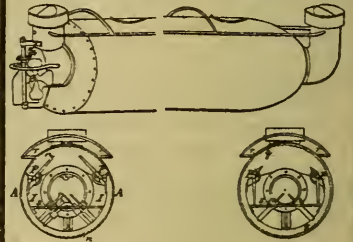
107,905. I. HICKS HORSE COLLAR TOP

107,910. J. E. HOVER.
CEMENT FOR PAVING AND BUILDING.107,911. J. W. HUFFMAN
MACHINE FOR TENONING SPOKES.107,901. J. S. HALL.
MACHINE FOR MAKING CLEAVISES.

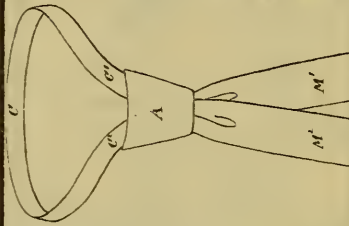
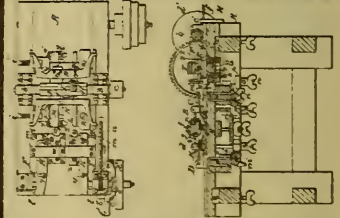
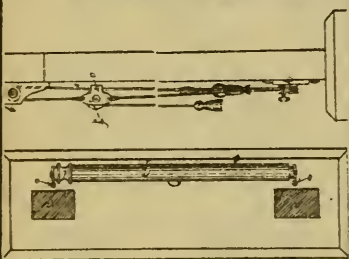
107,906 J. HIGGINS STUMP EXTRACTOR



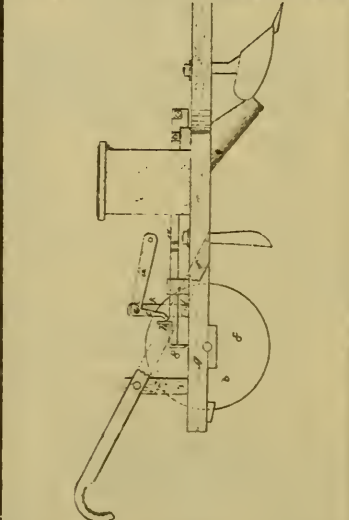
107,912. R. HUMBLE. LIFE BOAT.



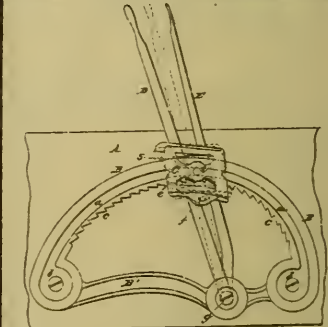
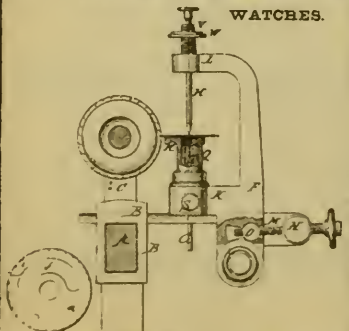
107,907. J. G. HITCHCOCK. NECKTIE.

107,913. E. S. HUNT.
MACHINE FOR MAKING FAN STICKS.107,902. E. W. HASTINGS.
ADJUSTABLE WINDOW SHADE

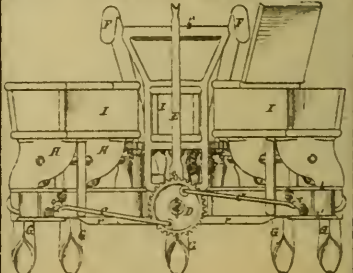
107,908 H. R. HOLLAND CORN PLANTER



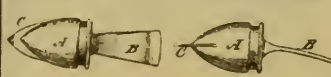
107,914. S. S. HURLBUT WAGON LOCK

107,903 J. L. HATHAWAY MACHINE
FOR FINISHING WHEELS FOR
WATCHES.

107,915. J. INGELS. GRAIN DRILL



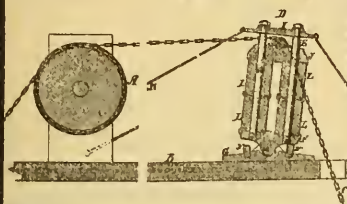
107,909. J. G. HOPE. PROJECTILE.



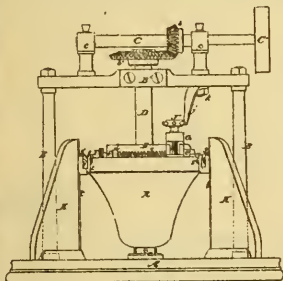
107,916. H. B. JAMUS.
MAINSRING BARREL OF WATCHES.



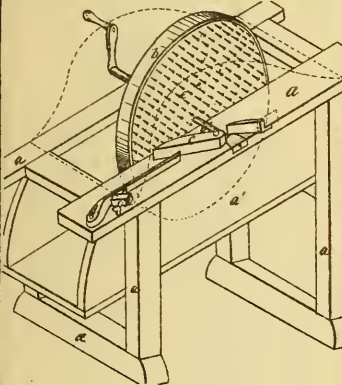
107,917. J. E. JONES SURGE RELIEVER.



107,918. O. JONES. MACHINE FOR
TURNING OR PLANING THE INSIDE OF
BELLS OR OTHER CASTINGS



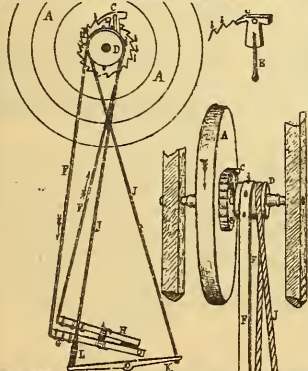
107,919. E. JORDAN. CORN SHELLER.



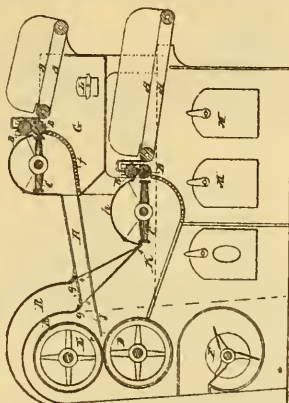
107,920. J. W. KENNY AND
J. H. ADAMS. HAIR CURLER.



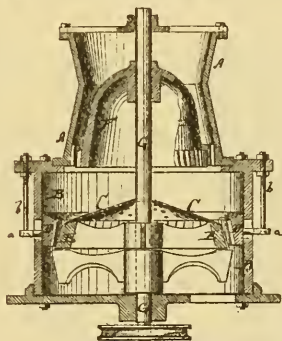
107,921 G. B. KIRKHAM TREADLE FOR
SEWING AND OTHER MACHINERY.



107,922. R. KITSON. COTTON OPENER.

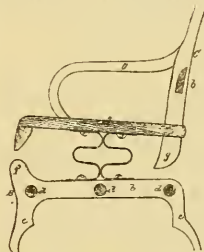


107,923. C. KORN. BARK MILL.

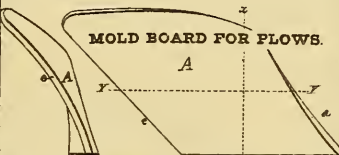


107,924. J. LAMB.

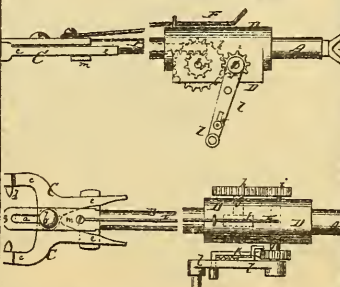
ROCKING OR TILTING CHAIR.



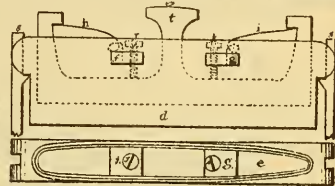
107,925. J. LANE.



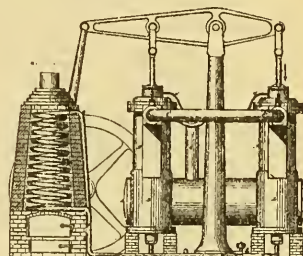
107,926. R. LANE. CAR PUSHER.



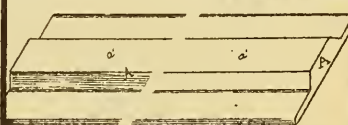
107,927 J. LAURITZEN CIGAR MACHINE



107,928 C. P. LEAVITT HOT AIR ENGINE



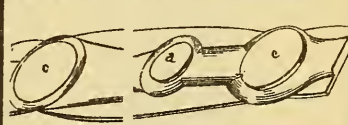
107,929. W. J. LEWIS HAMMER STRAP



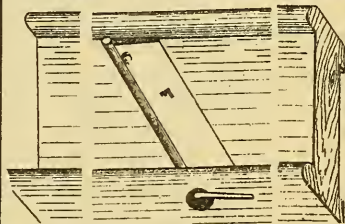
107,930. W. J. LEWIS.
RACK FOR WAGON BRAKES



107,931. W. J. LEWIS BLANK FOR
HAMMER STRAPS FOR WAGONS.

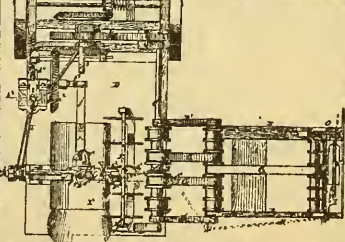


107,932. P. H. LINDSEY.
MEAT AND VEGETABLE SLICER.

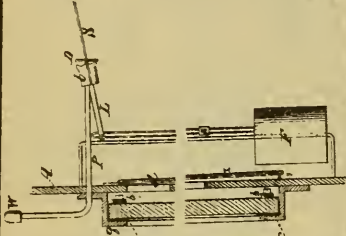


107,933. W. LOTTRIDGE

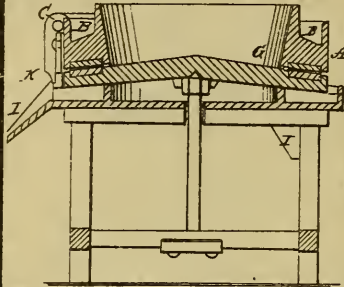
GRAIN BINDER



107,934. M. N. LYNN.
WATER INDICATOR AND ALARM.



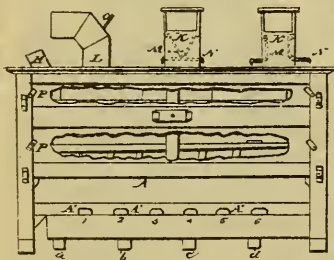
107,939. J. W. MASURY PAINT MILL.



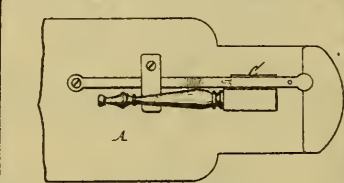
107,945. G. F. MORSE.



107,935. J. MALLIN. FLOUR BOLT.



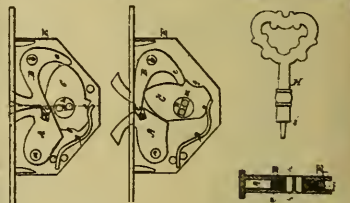
107,940 H. McCHESNEVIRIONING TABLE.



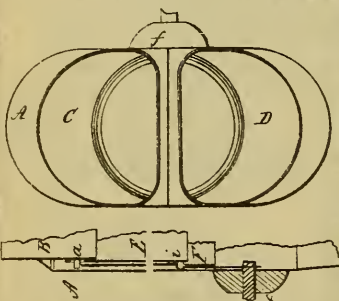
107,946. F. MURGATROYD.
EXPANDING TAP.



107,947. J. MURPHY. PIANO LOCK.



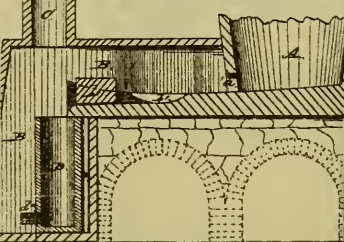
107,936. J. R. MANNY.
WATER CUT-OFF FOR CISTERNS.



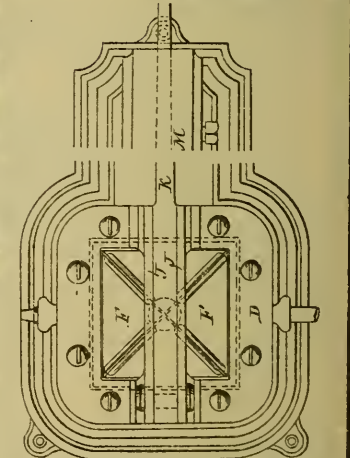
107,941 W. T. MERSEREAU STAIR ROD.



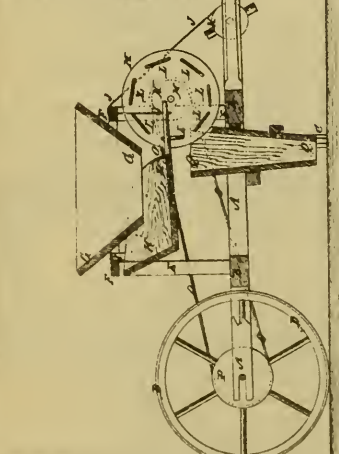
107,942. J. W. MIDDLETON
MANUFACTURE OF PURIFIED
CAST IRON FROM THE ORE.



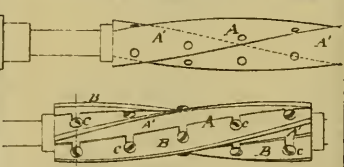
107,948. J. H. MURRILL.
DAMPER REGULATOR.



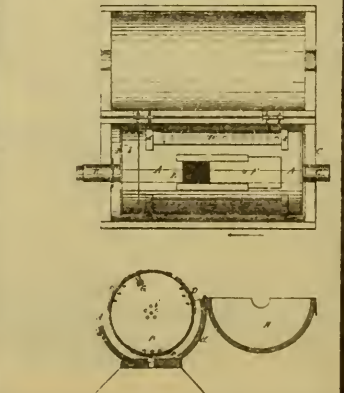
107,937. W. E. MARTIN.
GUANO DISTRIBUTER.



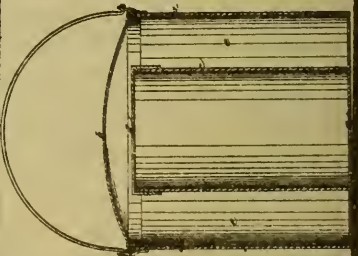
107,943. J. MORE.
CUTTER HEAD FOR PLANERS.



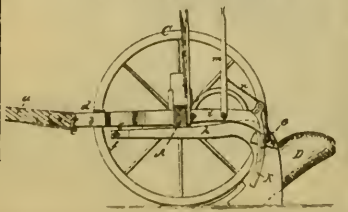
107,944. M. K. MORRIS.
FEATHER RENOVATOR.



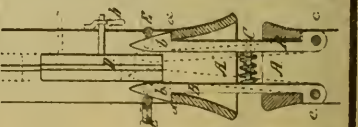
107,949. G. A. NASH ICE CREAM PAI.

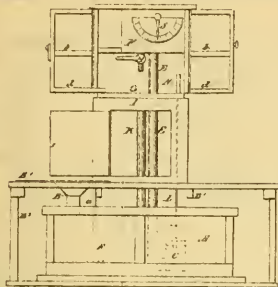
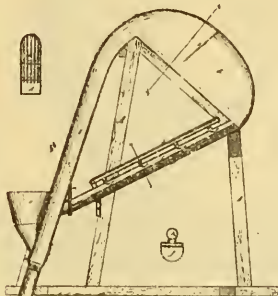
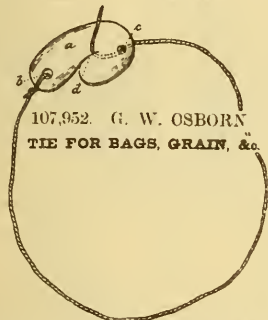
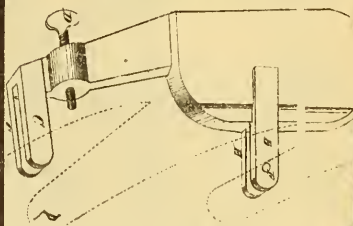


107,938. H. W. MASON. SULKY PLOW.



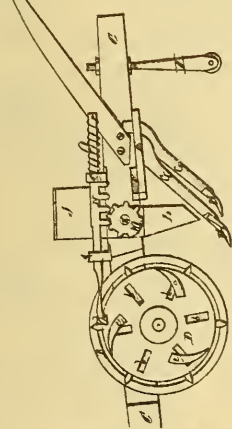
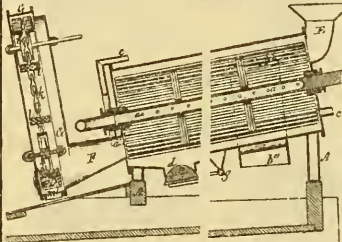
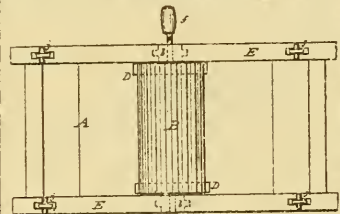
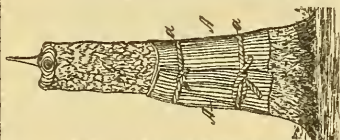
107,950. N. NORRIS
RAILWAY CAR COUPLING.



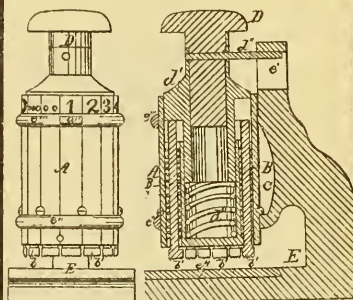
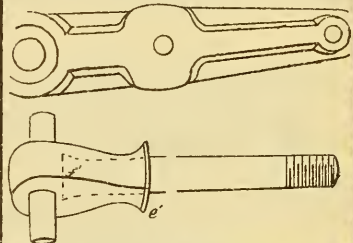
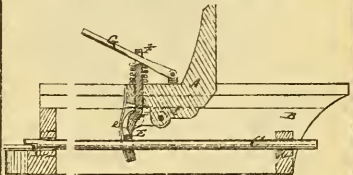
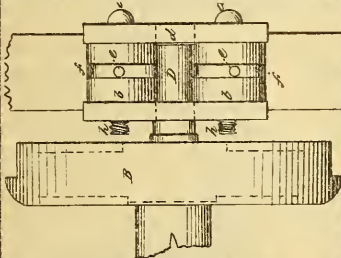
107,951. P. NOYES. APPARATUS FOR
DRAWING AND MEASURING OIL.107,957. E. PLATT APPARATUS FOR
WASHING ORES AND MINERALS.107,963. W. H. RUDOLPH DEVICE FOR
SPREADING CIRCULAR SAW TEETH.107,952. G. W. OSBORN
TIE FOR BAGS, GRAIN, &c.

107,953. J. S. PARSONS. WIRE.

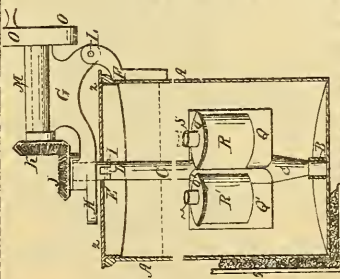
107,954. H. N. PEASE. CULTIVATOR.

107,958. J. B. PLATT.
MACHINE FOR WASHING ORES AND
OTHER MINERAL SUBSTANCES.107,959. C. M. POWERS AND
T. L. ROBINSON. WASHING MACHINE.107,960. D. R. PRINDLE.
TREE AND PLANT PROTECTOR.

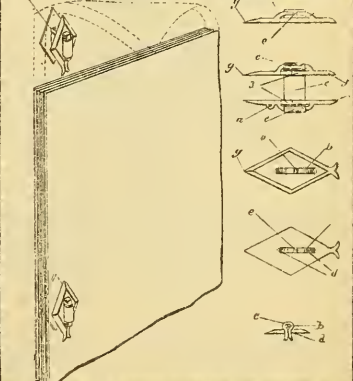
107,964. H. W. SAFFORD HAND STAMP.

107,965. S. SELDEN AND M. GRISWOLD.
LINK CONNECTING THE HANDLES AND
VALVE RODS OF PUMPS.107,966. F. W. SHELLEY.
HEAD BLOCK FOR SAW MILLS.107,955. J. PENCILLE. FRICTION
ROLLER FOR RAILWAY CARTRUCKS.

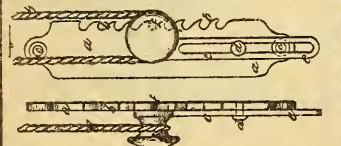
107,961. P. RIDERBULL OF VESSELS.

107,962. M. ROSENSTEIN
MANUFACTURE OF ICE.

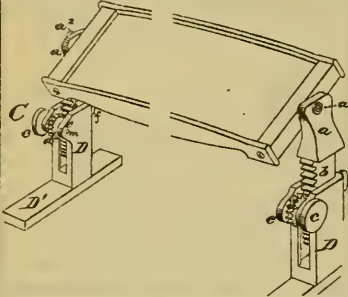
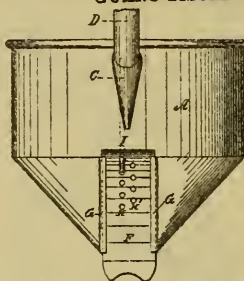
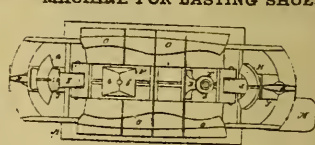
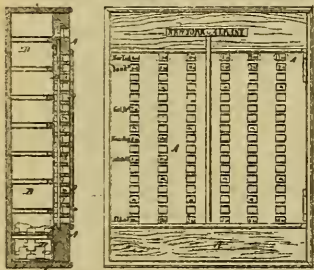
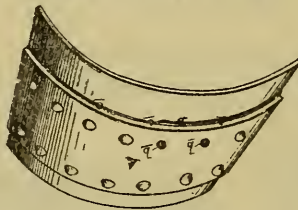
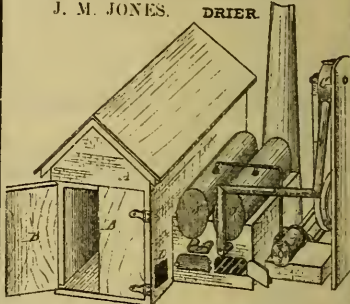
107,967. G. SHOVE. ROOFING.

107,968. F. M. SMITH.
TEMPORARY PAPER BINDER.

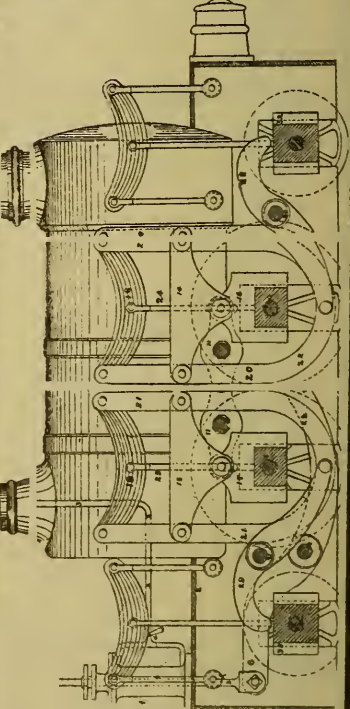
107,956. F. G. PEOBLE. CURTAIN FIXTURE.



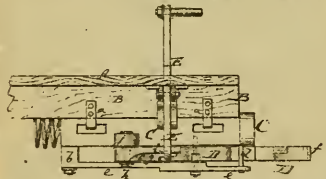
107,969. J. H. SMITH READING GLASS

107,975. E. R. STEDMAN
GUANO DISTRIBUTER.107,981. C. H. TRASK
MACHINE FOR LASTING SHOES.107,970. L. J. SMITH
ADJUSTABLE TIME TABLE.107,976. H. J. STEIN CONSTRUCTION
OF STEAM BOILERS AND TANKS.107,982. E. TROWBRIDGE AND
J. M. JONES. DRIER.

107,983. J. M. URE. LOCOMOTIVE.



107,971. L. J. SMITH CAR COUPLING.



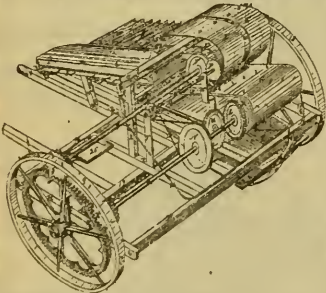
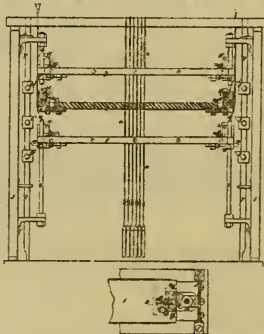
107,977. C. L. STEVENS STEAM PUMP



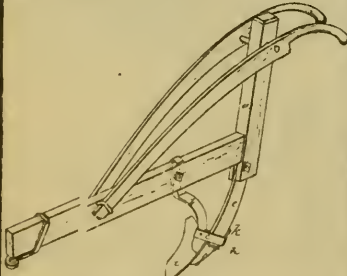
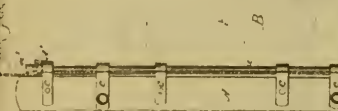
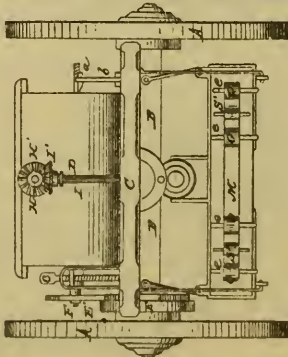
107,978. T. F. TAFT SHAFT COUPLING.



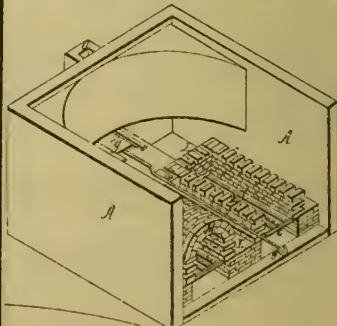
107,972 M. A. SMITH CORN HARVESTER

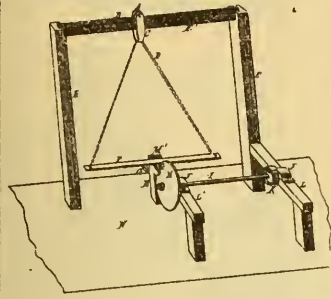
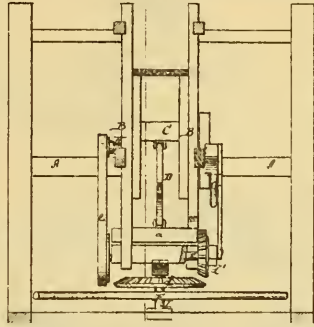
107,979. J. S. TEMPLETON MECHANISM
FOR OPERATING COMBER BOARDS.

107,973. C. W. SNEAD. PLOW.

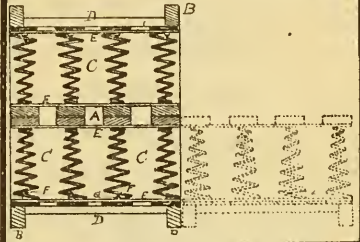
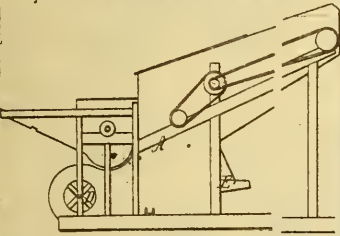
107,974 W. A. AND H. E. STARRETT
DEVICE FOR ATTACHING STEELS TO
CORSETS.107,980. G. M. THIRKITTLE
GRAIN AND SEED DRILL.

107,984. J. VALEROTARY BAKE OVEN

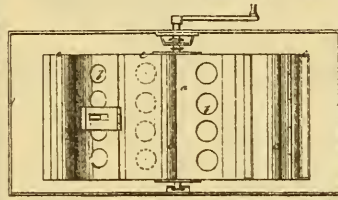
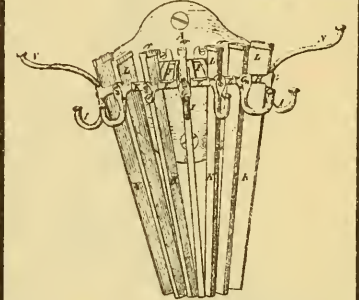


107,985. S. O. AND P. W. VAUGHAN
GRINDER FOR HARVESTER CUTTERS.107,990. C. A. WRIGHT COMBINED
HORSE POWER AND BALING PRESS.

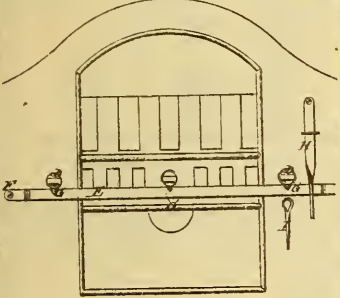
107,995. L. ANDERSEN SPRING BED.

107,986. A. A. WALKER
THRASHER AND SEPARATOR.

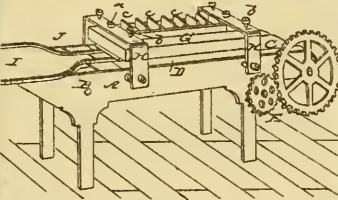
107,991G. WRIGHT WASHING MACHINE.

107,996. H. BAUMAN AND
O. MUELLER CLOTHES RACK.

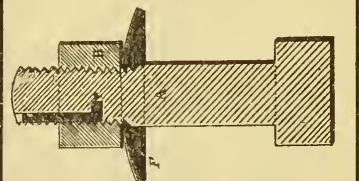
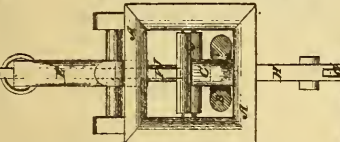
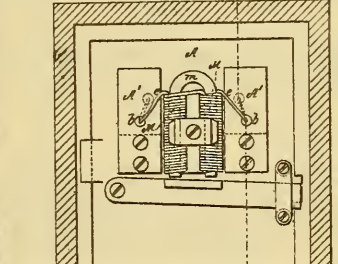
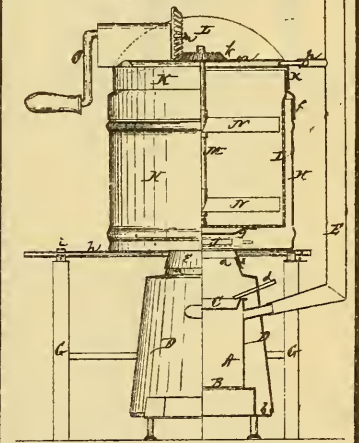
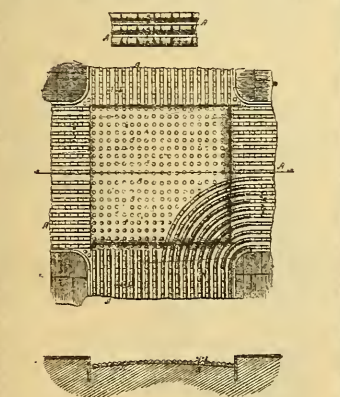
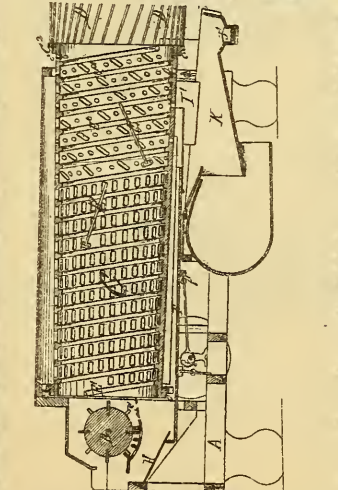
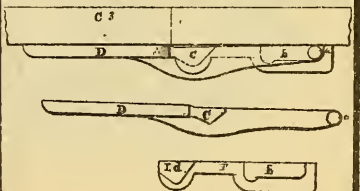
107,987 A. B. WEEKS FURNACE GRATE.



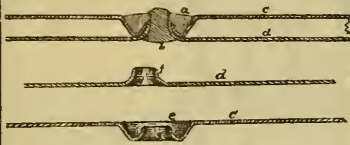
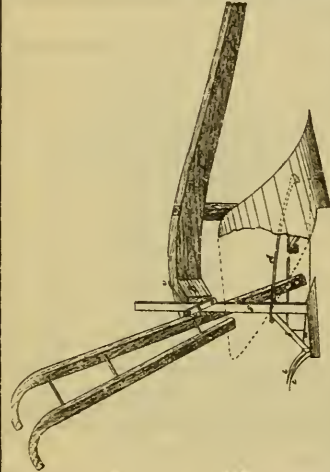
107,992. W. S. WRIGHT TYPE PLANER.

107,997. F. BECK, COMPOUND FOR
COLORING PAPER AND OTHER FABRICS.

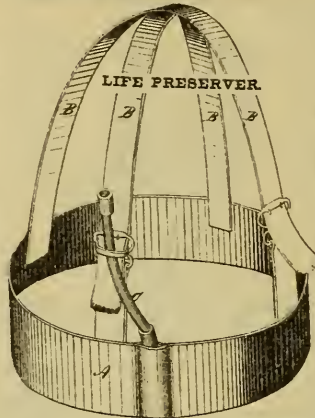
107,998. J. BELL NUT LOCK.

107,988. G. W. WHEAT.
RAILWAY CAR COUPLING.107,993. C. O. YALE
ELECTRO MAGNETIC SAFE LOCK.107,999. E. BICKELL AND
M. V. NORA CONK.
FEATHER RENOVATOR.107,989. G. WILKES.
CORRUGATED METALLIC PAVEMENT.107,994. J. ALLONAS.
THRASHING MACHINE.108,000. J. BLAKE.
AUZILIARY TABLE ATTACHMENT.

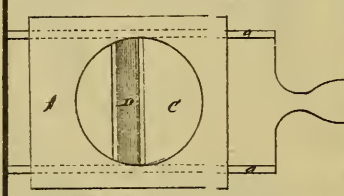
108,001. E. BOURNE. RADIATOR.

108,002. L. E. BURDIN.
SUBSOIL PULVERIZING ATTACHMENT
FOR PLOWS.

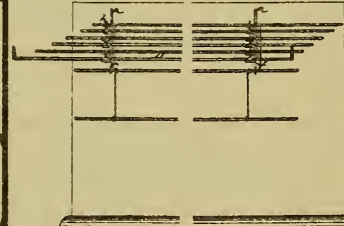
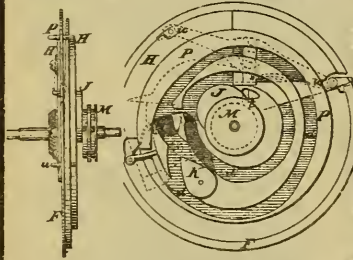
108,006. E. M. CRANDAL.



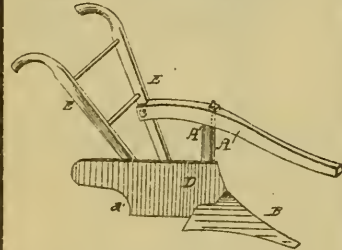
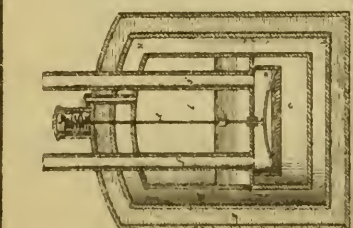
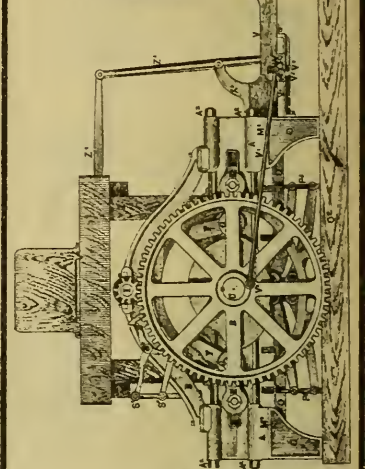
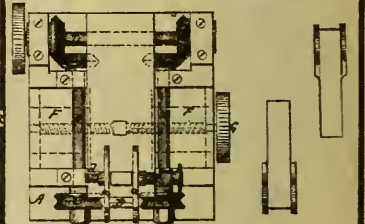
108,007F. CURTIS VEGETABLE CUTTER.



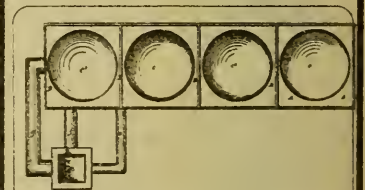
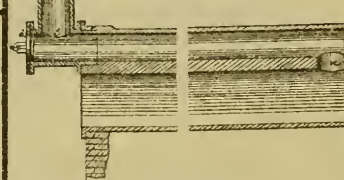
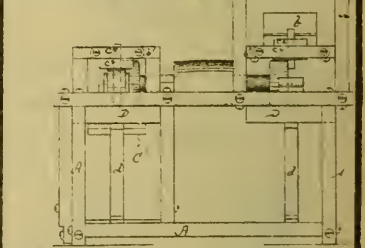
108,008W. A. DAGGETT CLOTHES DRIER

108,003. W. W. BURSON AND
J. NELSON. KNITTING MACHINE.

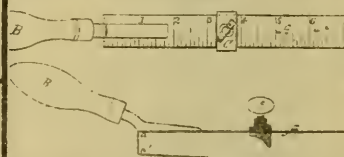
108,004. M. BUTLER. PLOW.

108,005. H. A. CHAPIN. APPARATUS
FOR CARBURETING AIR AND GAS.108,012. D. P. DOBBINS AND
J. SANGSTER
BRICK MACHINE.108,013. W. EVANS. MACHINE FOR
MILLING CARRIAGE SPRING HEADS.

108,014. N. FOCHE. FLUE.

108,009. D. DAVISON.
GAS RETORT.108,015. E. S. FRENCH.
MACHINE FOR SCRAPING
CHAIR BACKS.

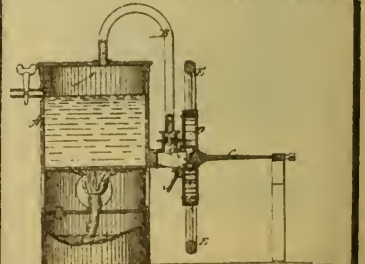
108,010. A. DEVO CLAPBOARD GAUGE

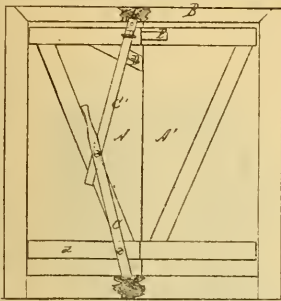
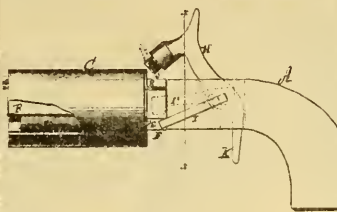


108,011. H. DISTON. SAW.



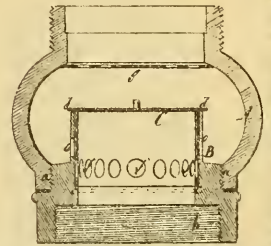
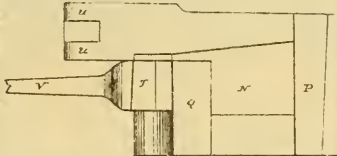
108,016. S. GIBSON ROTARY ENGINE.



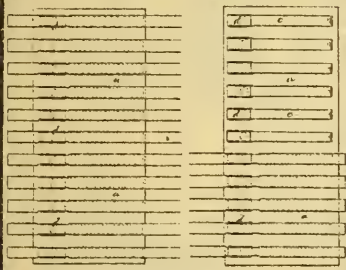
108,017. M. R. GREEN
BOLT FOR BARN DOORS, &c.108,022 J. H. HAWES AND O. W. BROCK
REVOLVING FIRE CRACKER PISTOL.

108,028. T. J. JOHNSON TOY TORPEDO

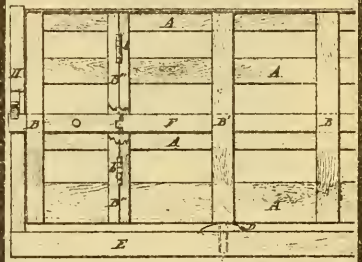
108,029. P. KELLER GAS REGULATOR.

108,023. J. C. HIGGINS.
TRIP HAMMER AND ANVIL STOCK.

108,018. B. GREGG. BED BOTTOM.

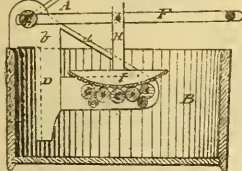
108,030. S. KEPNER COMPOSITION FOR
DESTROYING WORMS IN FRUIT TREES.

108,031. S. KEPNER. GATE.

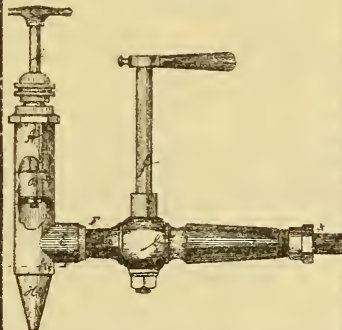


108,019. L. HALE

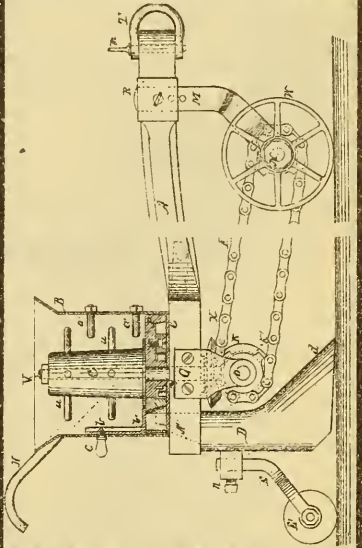
WASHING MACHINE



108,025. C. JAKOB. BEER FAUCET.

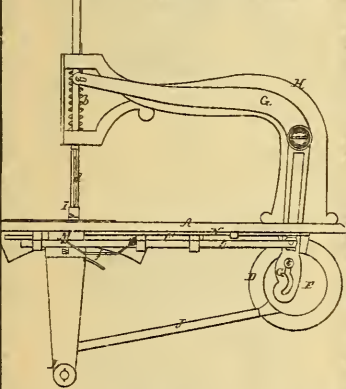
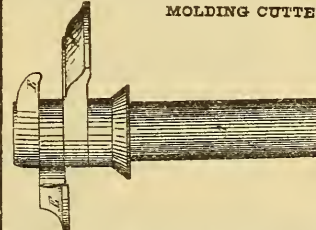


108,032 P. KLING PLOW AND PLANTER.

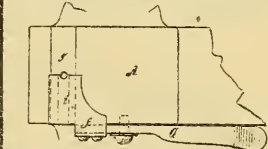


108,020. T. J. HARPER.

SEWING MACHINE.

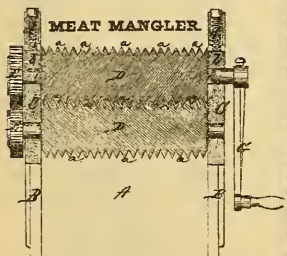
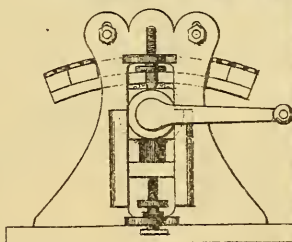
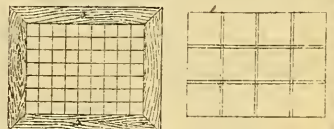
108,026. N. JENKINS.
MOLDING CUTTER.

108,033. A. KOMP. SEWING MACHINE.

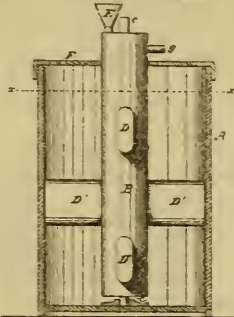


108,021 J. T. HARVEY AND W. DIXON

MEAT MANGLER.

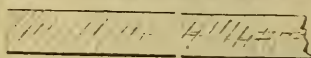
108,027 N. JENKINS
PANELING MACHINE.108,034. F. KRAUS.
PUTTING UP MEDICINES

108,035. A. LADD. CHURN.

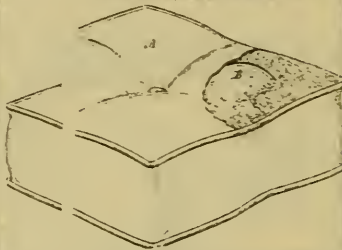


108,041. A. G. MORVAN. ELECTRO PHOTO DAMASKING AND ENAMELING.

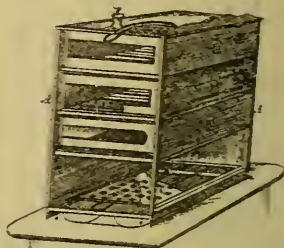
108,042. J. MYERS, JR. METAL PLATE OF IRON AND STEEL.



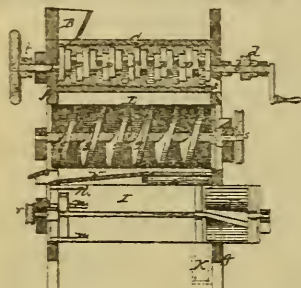
108,043. T. H. O'BRIEN. CUSHION MATTRESS, &c.



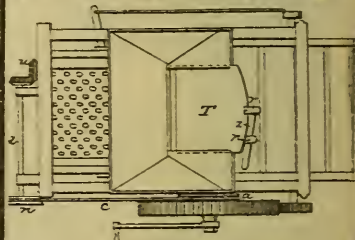
108,048. O. P. PENCE. FRUIT DRIER.



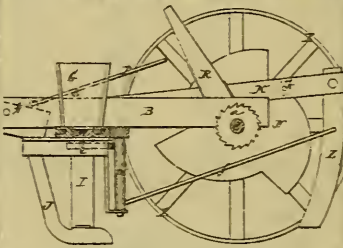
108,036. J. K. LEEDY. HONEY MILL.



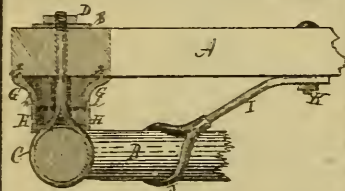
108,049. C. PETERSON FANING MILL.



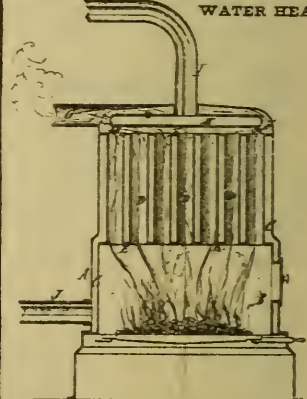
108,044. F. OGDEN. CORN PLANTER AND MARKER.



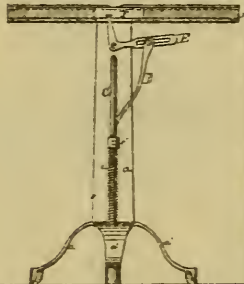
108,037. J. R. LITTLE. CULTIVATOR.



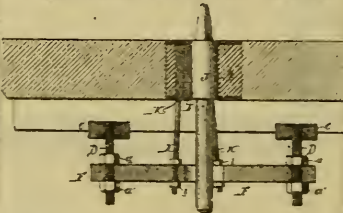
108,050. J. AND T. A. RAISBECK. WATER HEATER.



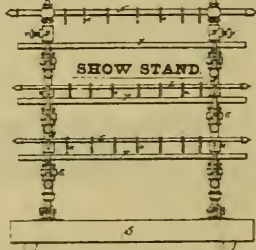
108,038. J. McFATRICK. ADDRESSING MACHINE.



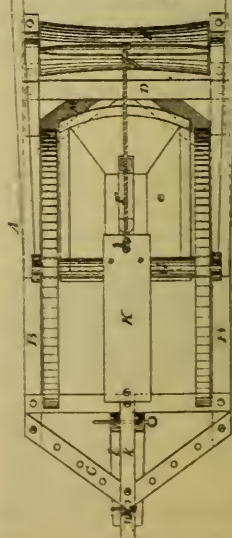
108,045. A. ORTLIP. MILLSTONE BUSH AND BEARING.



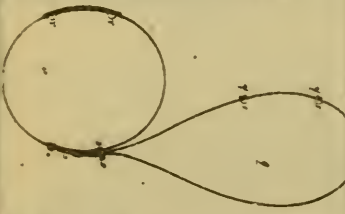
108,046. J. R. PALMENBERG.



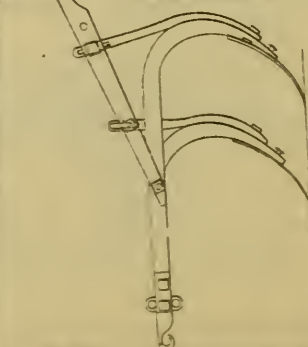
108,051. B. A. RAMSEY. SEED PLANTER.



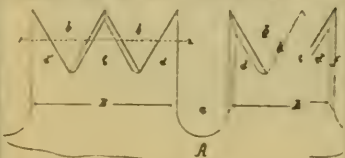
108,039. D. McINROY. BUSTLE.



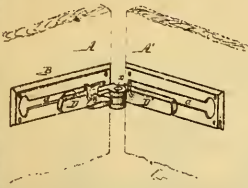
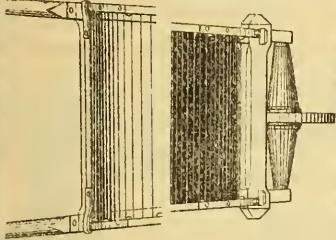
108,047. P. B. PARCELL. SHOVEL PLOW.



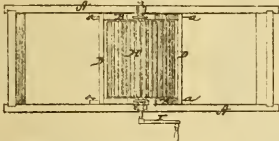
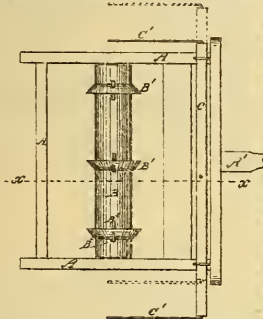
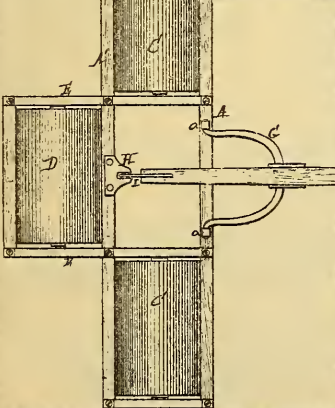
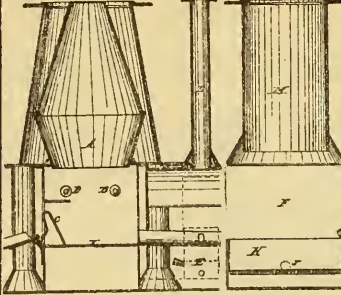
108,040. W. F. MILLIMAN. SAW.



108,052A. RANKINSHUTTER FASTENER

108,053. R. M. REYNOLDS.
WHEELBARROW.

108,054. A. RIGGSWASHING MACHINE

108,055. J. RILEY.
COMPOSITION FOR COVERING STEAM
BOILERS AND FOR OTHER PURPOSES108,056. M. M. ROBBINS. FIELD
ROLLER AND FURROWING MACHINE108,057. I. W. SEARLES
LAND ROLLER108,058. L. SIBERT.
MANUFACTURE OF IRON AND STEEL

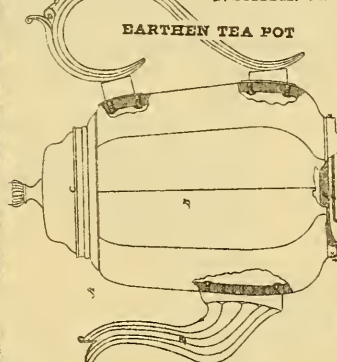
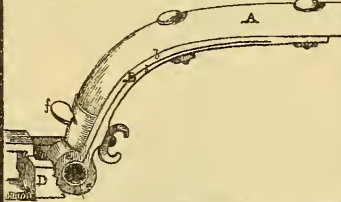
108,059. J. SMITH. SAW.



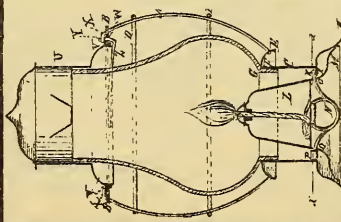
108,060. J. E. AND C. L. SMITH



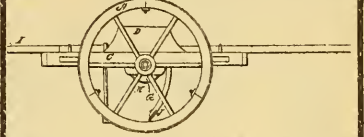
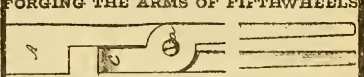
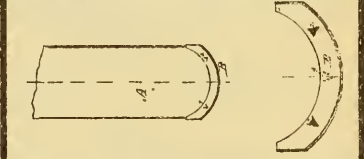
108,061. T. SMITH, JR.

108,062. J. STEELE.
SHAFT COUPLING FOR VEHICLES.108,063. G. D. STEVENSEUTTON HOOK
AND HANDKERCHIEF
HOLDER COMBINED

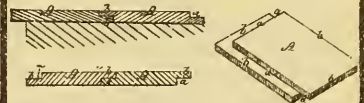
108,064. P. SWEENEY. LANTERN.



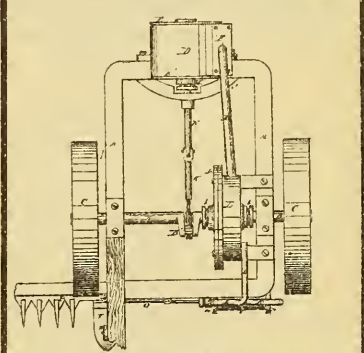
108,065. N. SWIGART.CORN PLANTER.

108,066. W. TERRELL. TONGS FOR
FORGING THE ARMS OF FIFTHWHEELS108,067. J. TWANLEY METALLIC
BINDING FOR TEXTILE FABRICS

108,068 W. UTLEY TILE FOR ROOFING, &c

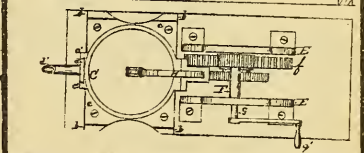
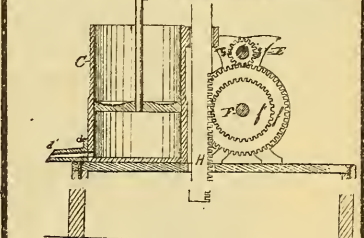


108,069. A. H. WAGNER HARVESTER.



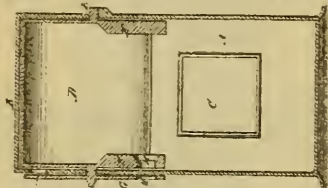
108,070. H. WHALER. H. METZ, AND

L. HEINZLE. SAUSAGE STUFFER.

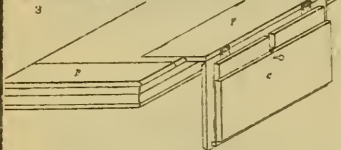
108,071. J. F. WALSHCAP FOR HORSE
COLLARS.

108,072. A. WARTH.
RENDERING LEATHER IMPERVIOUS
TO HYDROCARBON LIQUIDS.

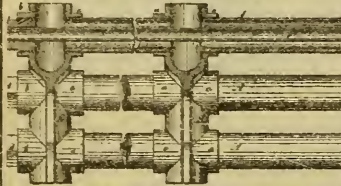
108,073. E. C. WELD. LETTER BOX.



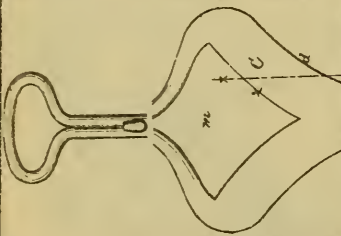
108,074. J. J. WHEAT.
SEWING MACHINE TABLE.



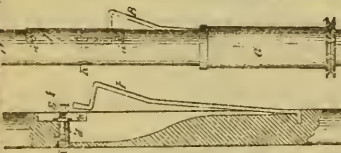
108,075. H. WHITTINGHAM.
SECTIONAL STEAM GENERATOR.



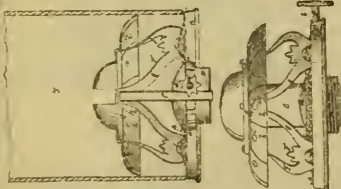
108,076. D. H. WILE. HAY KNIFE.



108,077. R. C. WILLIAMS. UMBRELLA.



108,078. S. R. WILMOT. LAMP BURNER.



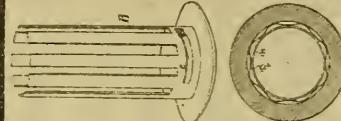
108,079. E. D. MURFEY. JOURNAL BOX.



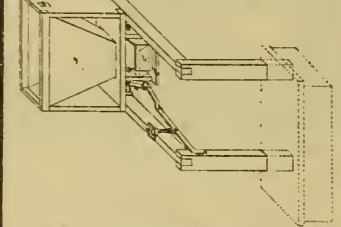
108,080. E. D. MURFEY.
JOURNAL BEARING.



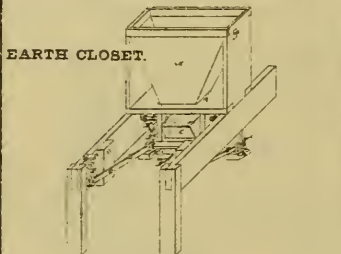
108,081. E. D. MURFEY. JOURNAL BOX.



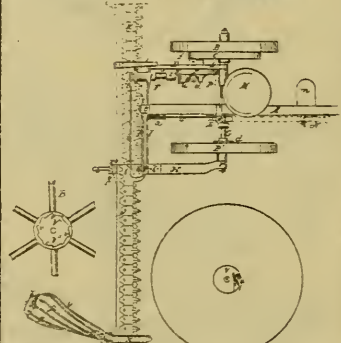
4,137. EARTH CLOSET COMPANY.
DEODORIZING APPARATUS
FOR CLOSETS.



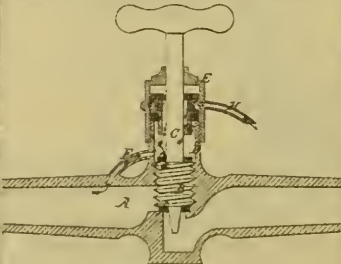
4,138. EARTH CLOSET COMPANY.



4,139. R. DUTTON. HARVESTER.



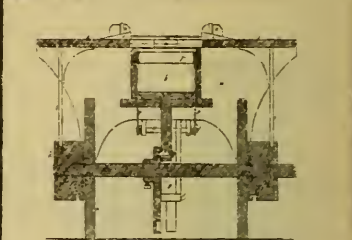
4,140. J. P. GALLAGHER. COCK.



4,141. J. T. GROSE.
WASHING APPARATUS.



4,142. W. L. WILLIAMS AND
T. J. O'CONNOR.
MACHINE FOR BUNDLING WOOD.



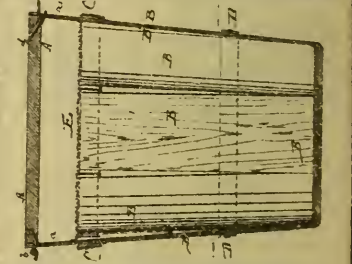
4,143. M. P. NORTON.
POST OFFICE POST MARKING AND
CANCELING HAND STAMP.



4,144. M. P. NORTON.
HAND CANCELING STAMP.



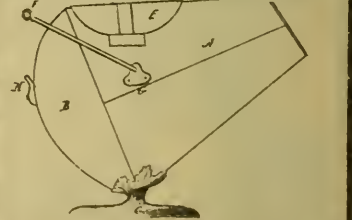
4,145. L. CARPENTER. FRUIT BASKET.



4,146. G. L. GERARD.
TABLE LEAF SUPPORTER.



4,147. E. A. JEFFERY. COAL ROD.



4,148. E. L. PERRY AND
C. MANHEIM. MANUFACTURE OF
RUBBER OR GUTTA PERCHA HOSE.

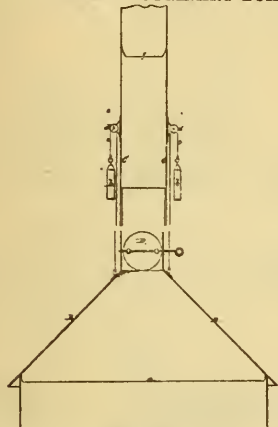
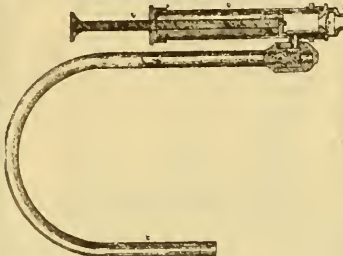


ILLUSTRATIONS OF PATENTS

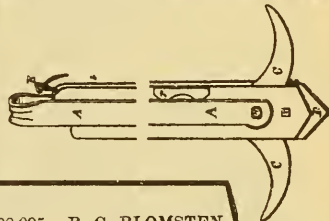
ISSUED FROM

THE UNITED STATES PATENT OFFICE

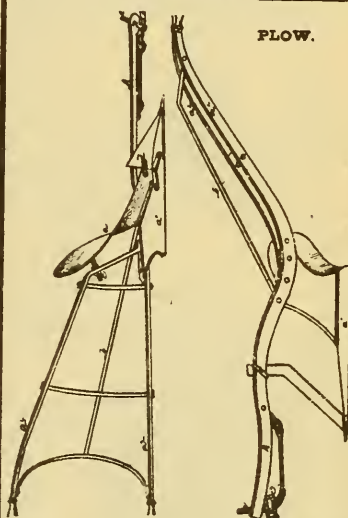
OCTOBER 11, 1870.

108,082. P. J. AND J. ABBOTT.
COVER OF CULINARY BOILER.108,087. J. D. AVERELL.
G. A. HIGGINS AND T. GORDON
COMBINED PUMP AND SIPHON

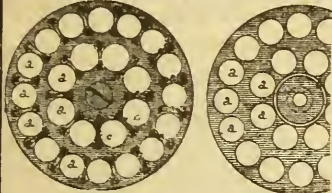
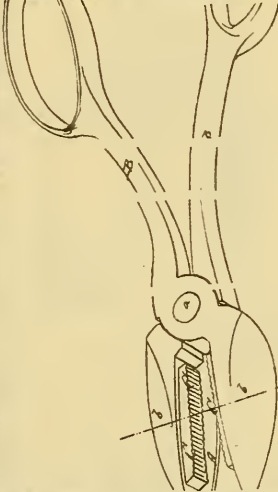
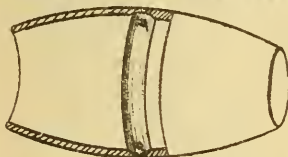
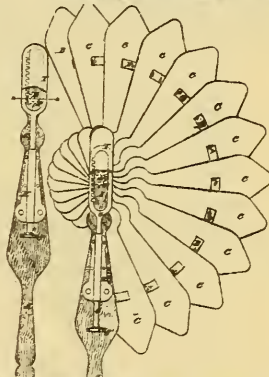
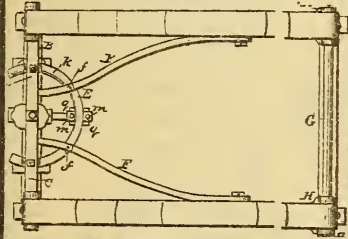
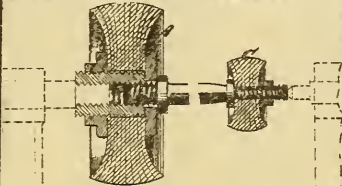
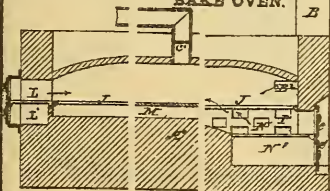
108,094. S. BEBOUTHORSE HAT FORM



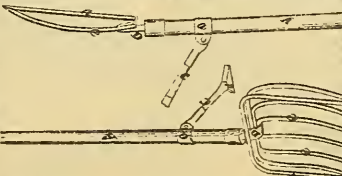
108,095. B. C. BLOMSTEN.



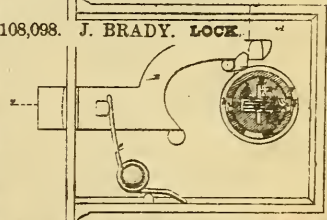
FLOW.

108,083. G. A. ANDERSON AND
C. J. BAKER.
MEAT AND VEGETABLE MASHER.108,088. H. M. BAKER. PROCESS FOR
THE MANUFACTURE OF CARBONATE
OF SODA, HYDROCHLORIC ACID, &c.108,089. H. M. BAKER. MANUFACTURE
OF ALUMINATE OF SODA108,090. H. M. BAKER
MANUFACTURE OF NITRIC ACID.108,091. J. W. BARBOUR.
SHEARS FOR CUTTING FLOWERS.108,084. J. E. ATWOOD. CRUCIBLE
FOR MELTING IRON AND STEEL.108,096. G. BORDES DEVICE FOR
OPENING AND CLOSING FANS.108,085. J. B. AUGUR.
GEARING FOR WAGONS.108,092. H. BARRETT. BUFFING
APPARATUS FOR FINISHING SPOONS.108,086. A. A. AND J. A. AULL
BAKE OVEN.

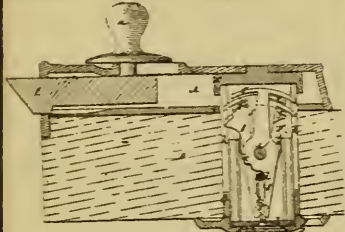
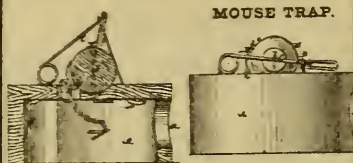
108,093A. L. BAUSMAN POTATO DIGGER

108,097C. D. BOSS AND C. D. BOSS, JR.
MANUFACTURE OF BISCUITS

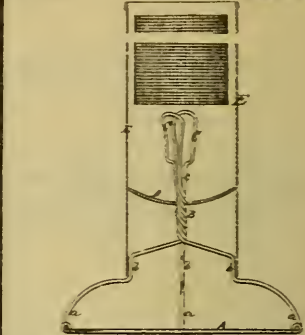
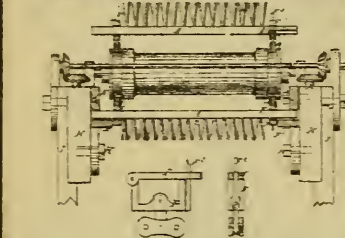
108,098. J. BRADY. LOCK.



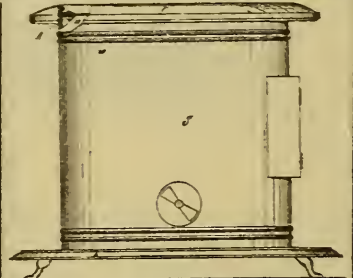
108,099. J. BRADY. LOCK.

108,104. E. AND A. BUCKMAN
MOUSE TRAP.

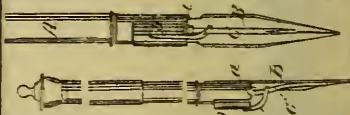
108,109. F. C. CONE. CANDLESTICK.

108,100. J. BRADY
MACHINE FOR BRUSHING YARN.

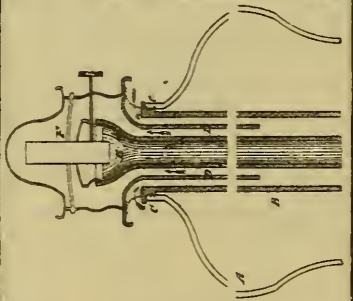
108,105 J. C. BURDIN STOVE FASTENER.



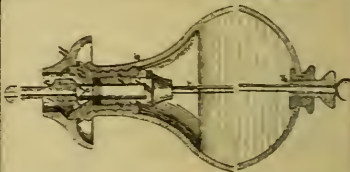
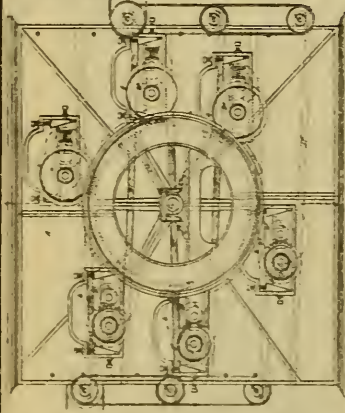
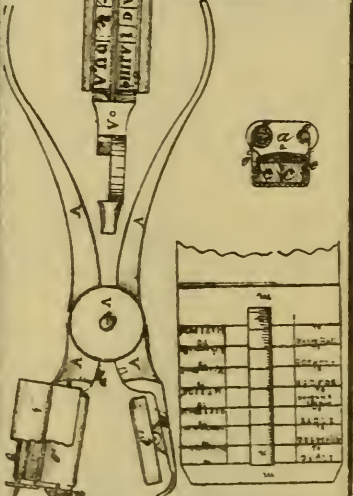
108,110. F. C. CONE. FOUNTAIN PEN.

108,101. D. D. BROWN.
CHECK FOR HOLDING ROPES.

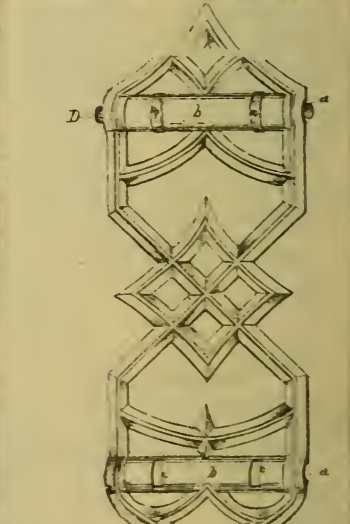
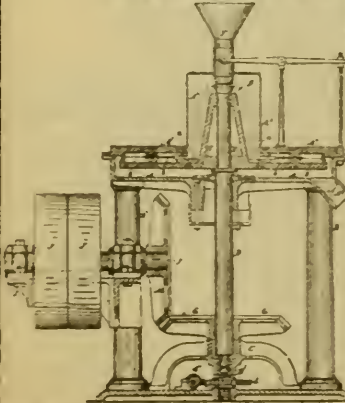
108,106. O. M. CHAMBERLAIN. LAMP.



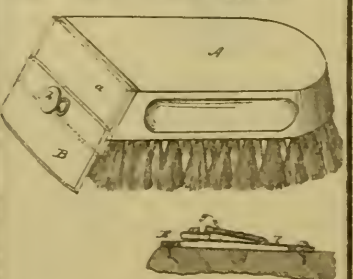
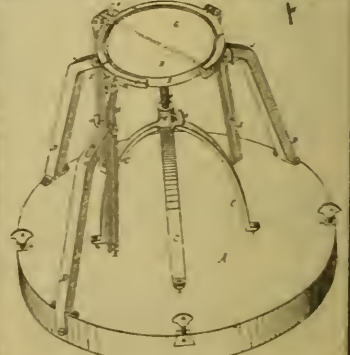
108,111. G. CONOVER. SYRINGE

108,102. G. A. BUCHHOLZ
MANUFACTURE
OF SEMOLINA AND FLOUR.108,107. C. A. CHAMBERLIN
RAILROAD TICKET.

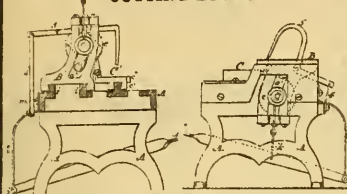
108,112. S. CROWELL IRON FENCE.

108,103. G. A. BUCHHOLZ.
MANUFACTURE
OF SEMOLINA AND FLOUR.

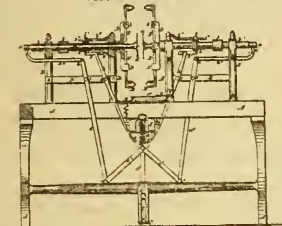
108,108. R. J. COMBS. BRUSH.

108,113. A. CUTTER
MACHINE FOR SETTING UP BARRELS.

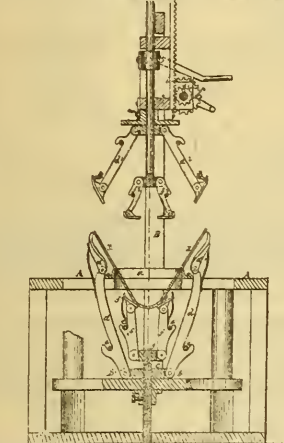
108,114. A. CUTTER MACHINE FOR CUTTING LOCKS IN HOOPS



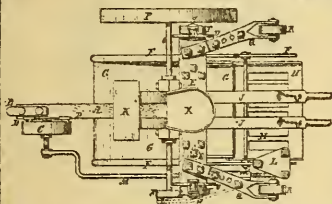
108,115. A. CUTTER MACHINE FOR MAKING BARREL HEADS



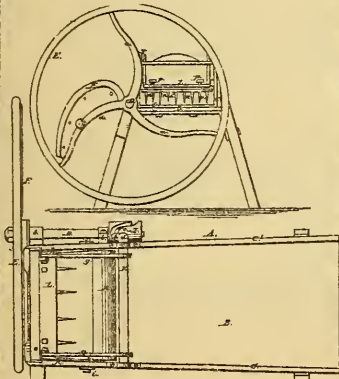
108,116. J. DE LA MARMACHINE FOR BLOCKING AND STRETCHING HATS.



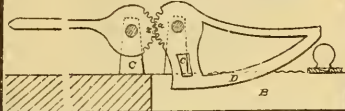
108,117. W. DILLON POTATO DIGGER



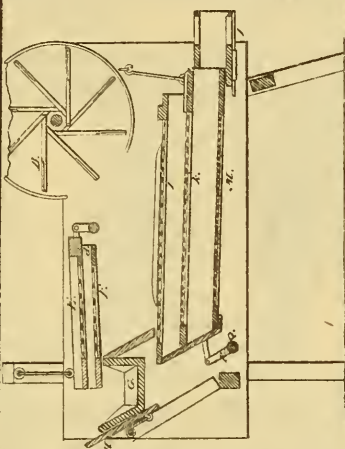
108,118. C. R. DONNERFEED CUTTER.



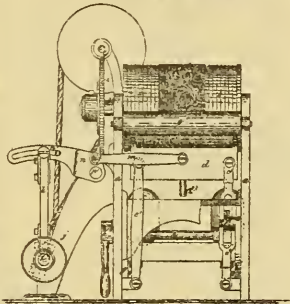
108,119. J. G. DREHER. TOBACCO CUTTER.



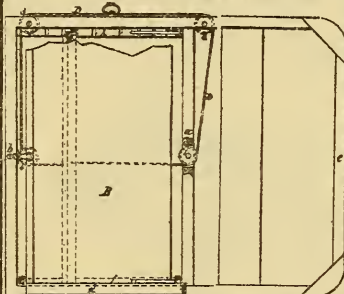
108,120. A. DUUS.GRAIN SEPARATOR



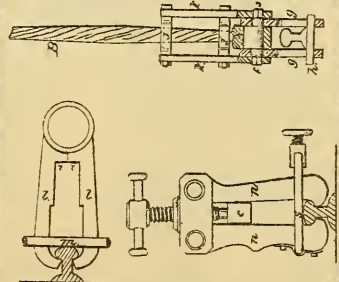
108,121. R. EICKMEYER MACHINE FOR FELTING.



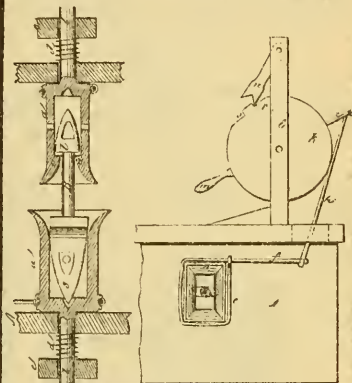
108,122. H. EILERS. ADJUSTABLE PILLOW.



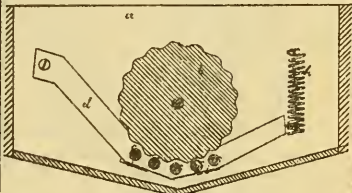
108,123. G. D. EMERSON APPARATUS FOR BENDING RAILROAD RAILS.



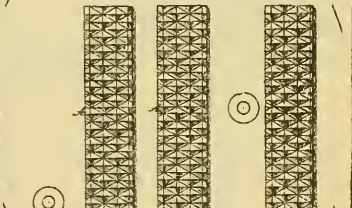
108,124. L. A. EVANS CAR COUPLING.



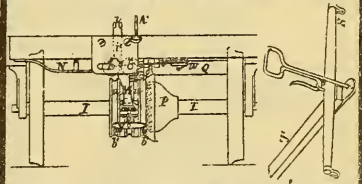
108,125F. FEAZELWASHING MACHINE.



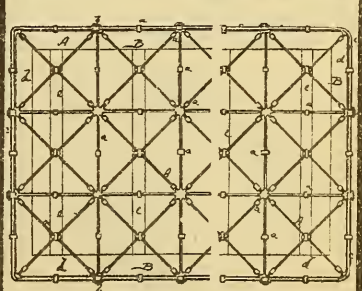
108,126. J. E. FINLEY HAND CORN SHELLER.



108,127. G. P. FRICK. DEVICE FOR STARTING STREET CARS.

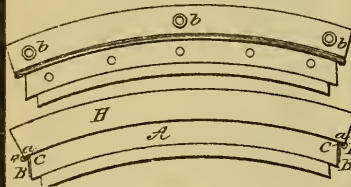


108,128. C. FULTONSPRING MATTRESS



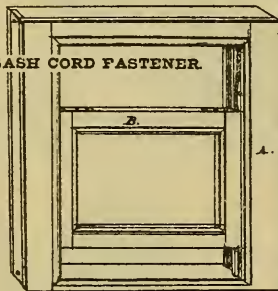
108,129. T. FYANS. COMPOSITION FOR WELDING AND RESTORING STEEL.

108,130. J. GARRY. CAR ROOF.



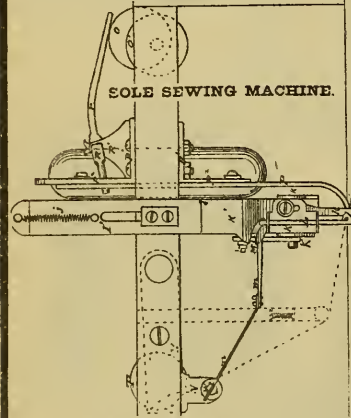
108,131. C. GIES.

SASH CORD FASTENER.



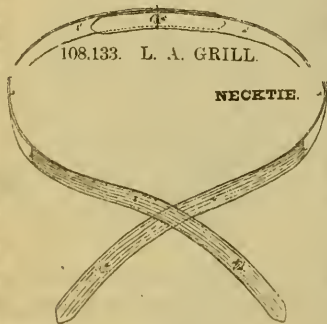
108,132. J. P. GREELY.

SOLE SEWING MACHINE.

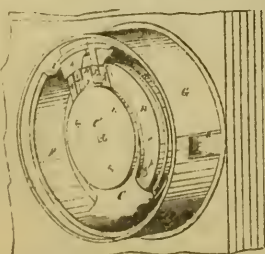


108,133. L. A. GRILL.

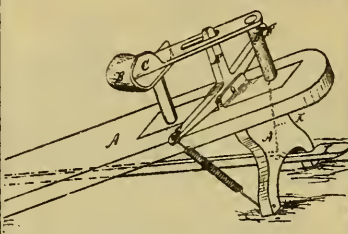
NECKTIE.



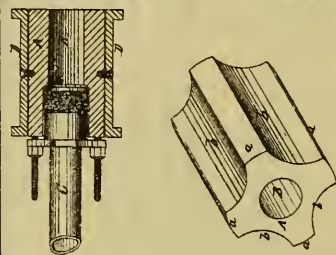
108,134-II. GROSS. PERMUTATION LOCK.



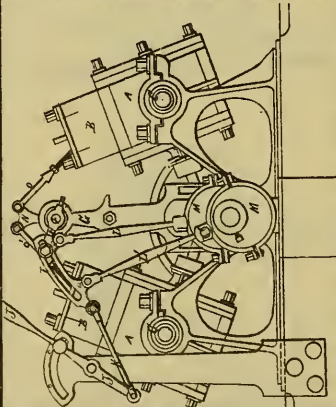
108,135. C. A. HEGE. CANE STRIPPER.



108,136. T. HILL. TRUNNION FOR STEAM ENGINES AND CALENDERS.

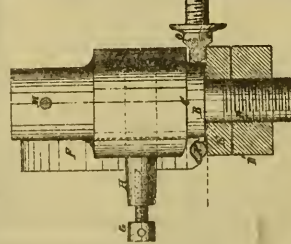


108,137. T. HILL. VALVE GEAR FOR STEAM ENGINES.

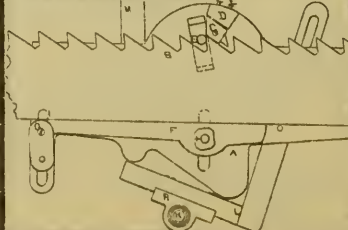


108,138. A. J. HINDEMAYER. COMPOSITION FOR WELDING, PUDDLING AND BRAZING METALS.

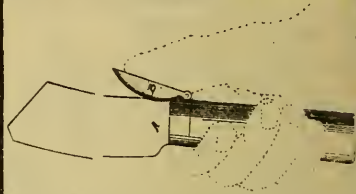
108,139. C. HINGHER. APPARATUS FOR FINISHING TERRETS.



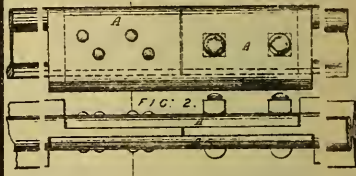
108,140. G. M. HINKLEY. SWAGING MACHINE.



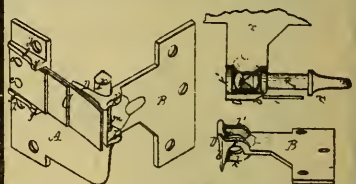
108,141. P. HOUSEMAN AND C. C. CAMPBELL. BUTCHER'S KNIFE.



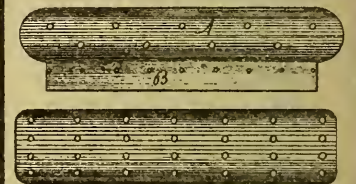
108,142. G. A. HUDDART. RAILWAY RAIL JOINT.



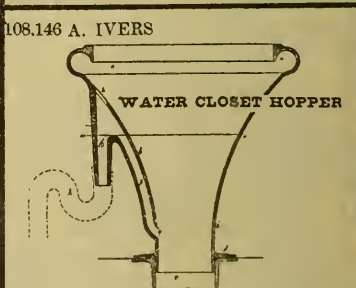
108,143. A. HUFFER. HINGE.



108,144. J. C. HULL. WINDOW WASHER AND SCRUBBING PAD.

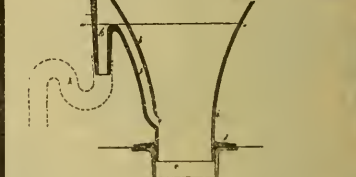


108,145. I. G. HUSTED. COMPOSITION FOR PRINTING ROLLERS.

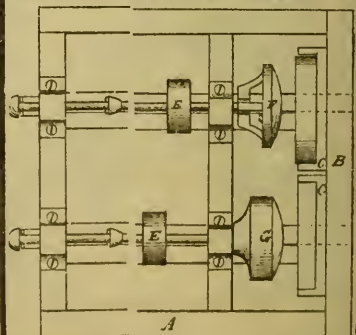


108,146 A. IVERS

WATER CLOSET HOPPER

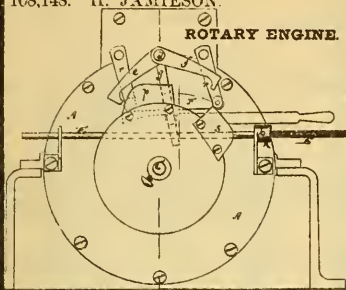


108,147. E. S. JACKSON. MACHINE FOR MANUFACTURING CHAIR SEATS.

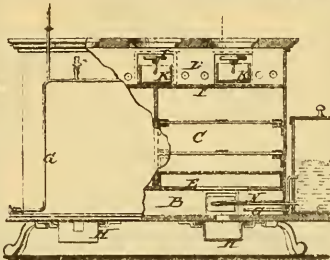
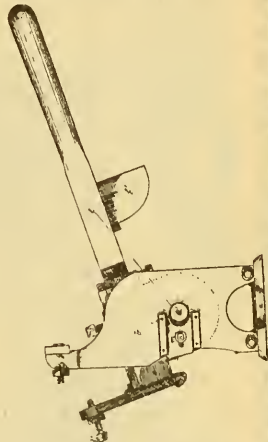


108,148. H. JAMIESON.

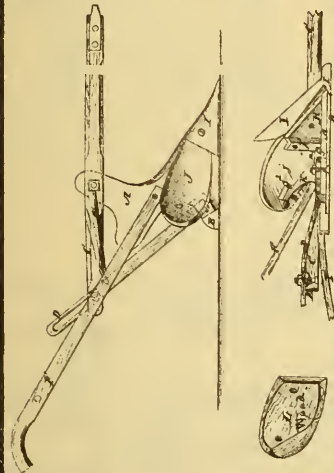
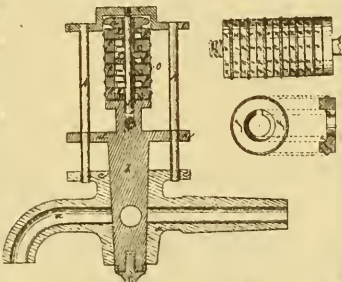
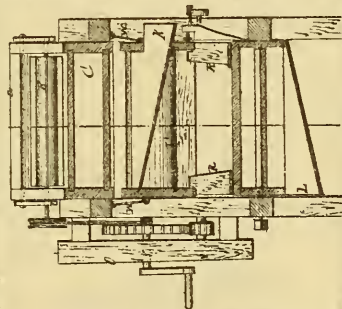
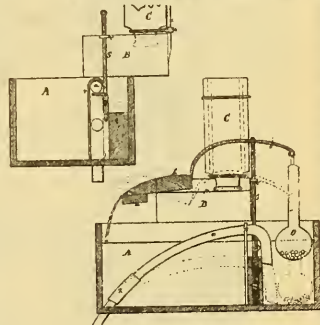
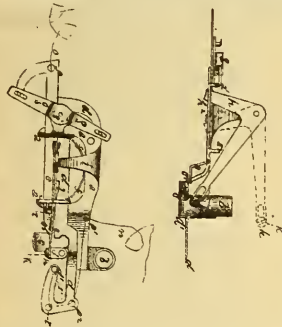
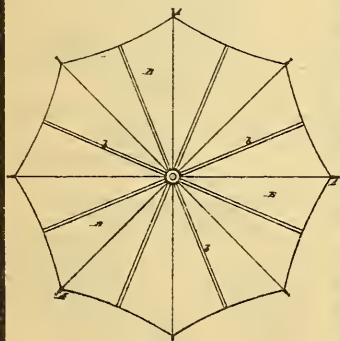
ROTARY ENGINE.



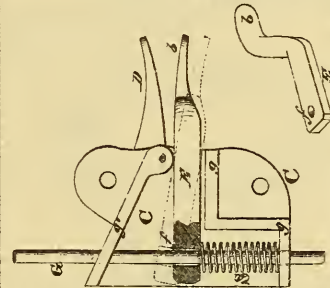
108,152. J. H. JONES. COOKING STOVE.

108,157. I. W. KNOWLES.
MANUFACTURE OF POTTERY WARE.

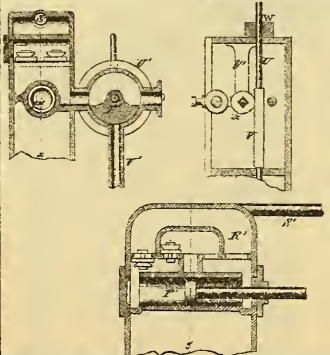
108,149. J. R. P. JETT. FLOW.

108,153. W. F. JONES
PERMUTATION LOCK FAUCET108,154. N. KIBLER
FEEDING DEVICE FOR FANNING MILLS108,158. W. S. LAIGHTON APPARATUS
FOR PRECIPITATING GOLD
AND SILVER FROM SOLUTIONS108,150. A. W. JOHNSON EMBROIDERING
ATTACHMENT FOR SEWING MACHINES108,151. F. JOHNSON AND
W. HATCHMAN. UMBRELLA.

108,155. G. KING. SASH HOLDER.

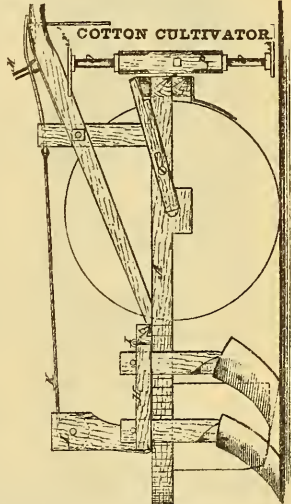


108,156. F. E. KIRBY STEAM ENGINE



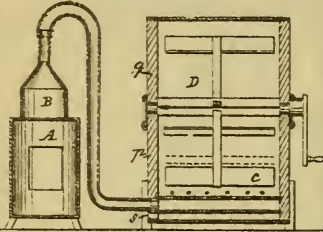
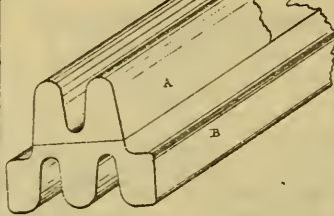
108,159. P. R. LEATHERMAN

COTTON CULTIVATOR

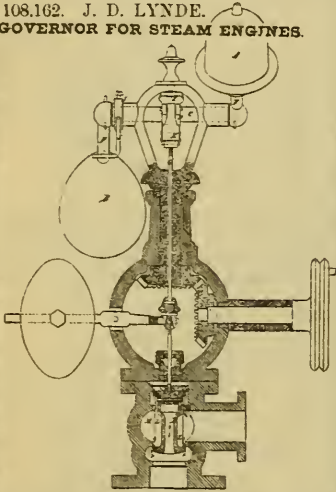


108,160. S. LEWIS. MAT.

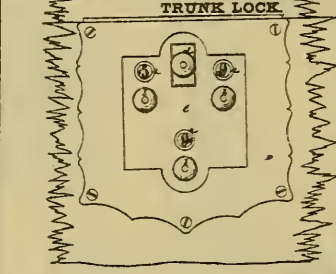


108,161. W. G. LUMBARD.
FEATHER RENOVATOR108,165. R. MONTGOMERY
FILE FOR CORRUGATED BEAMS.

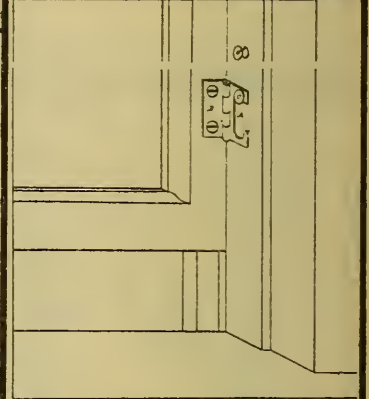
108,170. O. NICHOLSON COLORTROPE.

108,162. J. D. LYNDE.
GOVERNOR FOR STEAM ENGINES.

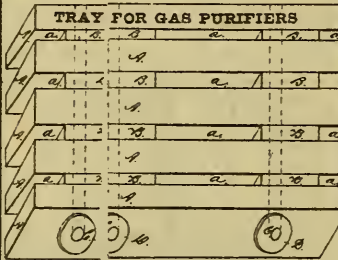
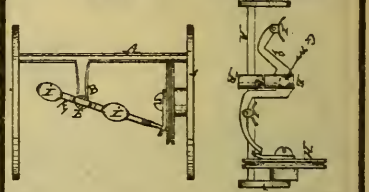
108,166. J. MORGAN



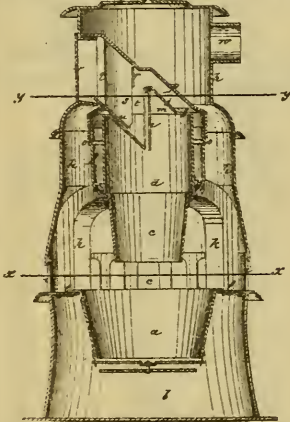
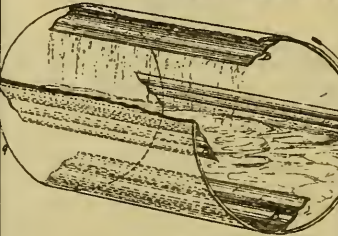
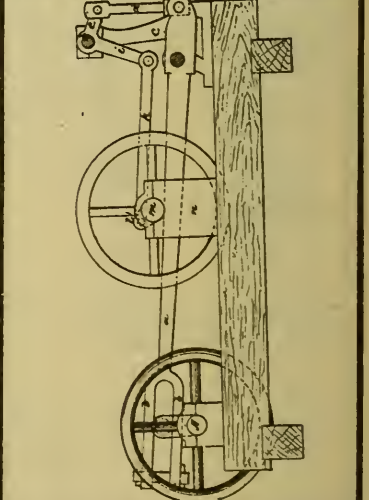
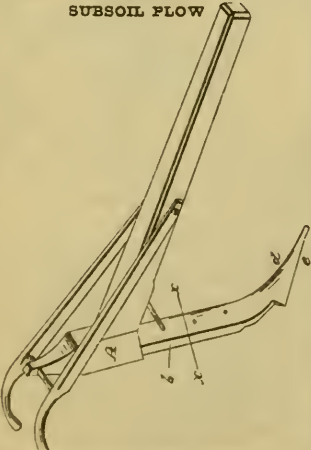
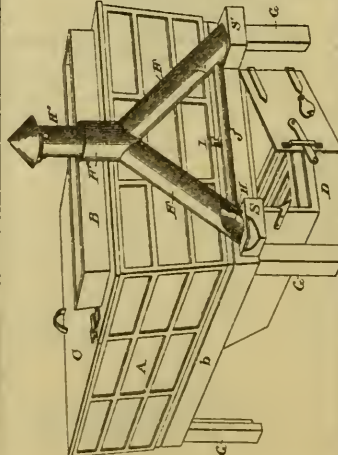
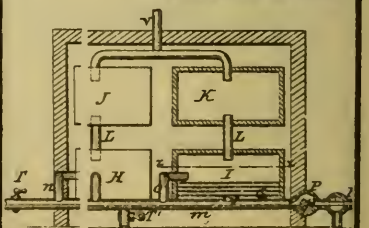
108,171 J. G. NICOLAY SASH FASTENER.



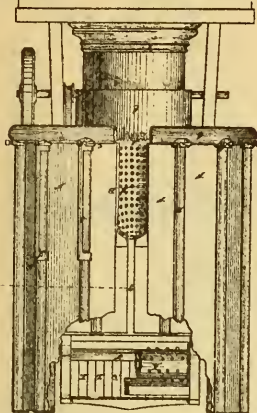
108,167. P. MUNZINGER

108,172. A. NIELSON
UNIVERSAL JOINTED TREADLE

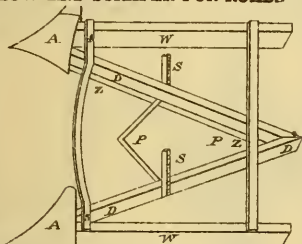
108,163. W. MAGILL HEATING STOVE

108,168. G. R. NEBINGER
WASHING MACHINE.108,173. R. W. NORWOOD.
TRANSMITTING POWER APPARATUS.108,164 L. V. B. MARTIN
SUBSOIL FLOW108,169. T. J. NEWBY APPARATUS
FOR EVAPORATING SORGHUM
JUICE, COOKING FEED, &c108,174. S. B. B. NOWLAN
STEAM GENERATOR.

108,175. I. NUTT.
MACHINE FOR FORMING HAT BODIES

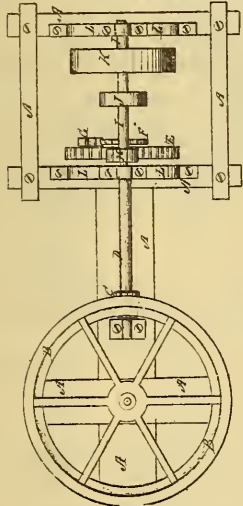


108,176. T. B. PARKER. COMBINED
FLOW AND SCRAPER FOR ROADS

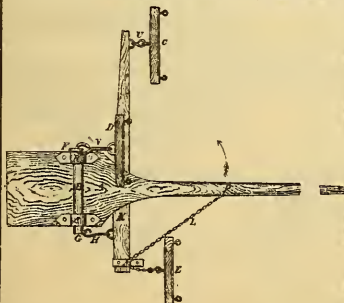


108,177. H. PEMBERTON
MANUFACTURE OF PAPER

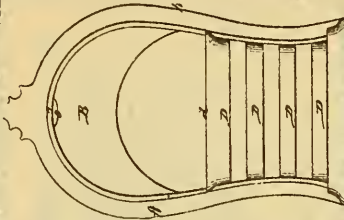
108,178. L. A. PETER. HORSE POWER



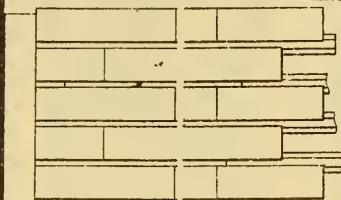
108,179. J. C. PFEIL
THREE HORSE EQUALIZER



108,180. T. PHILLIPS. FIRE PLACE.



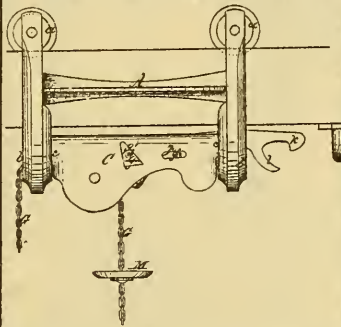
108,181A. W. PLATTWOOD PAVEMENT



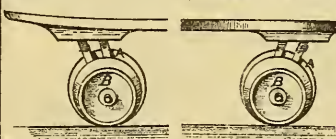
108,182. S. POCOCK. WINDOW BLIND.



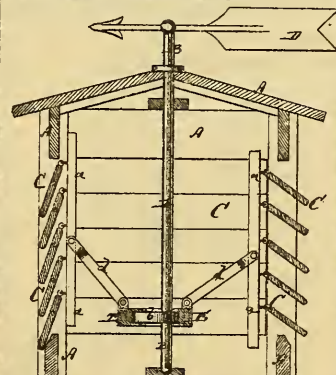
108,183. T. J. POWELL.
COMBINED ELEVATOR AND CONVEYER



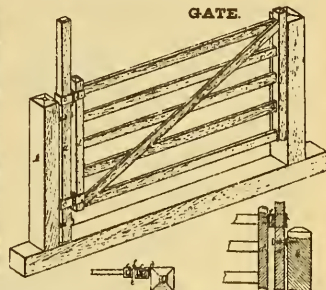
108,184. J. POLLITT. PARLOR SKATE



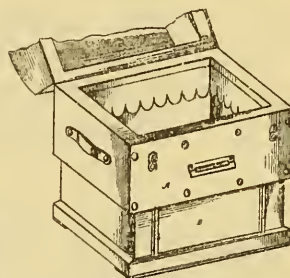
108,185. B. F. PRENTIS
AUTOMATIC VENTILATOR



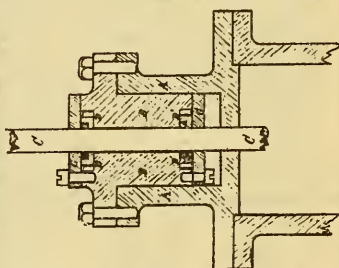
108,186. S. REGAN AND E. MEUSY
GATE.



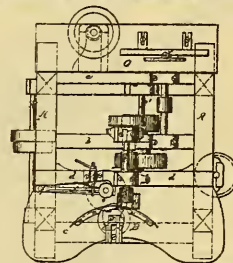
108,187. J. RICE. EXTENSION TRUNK



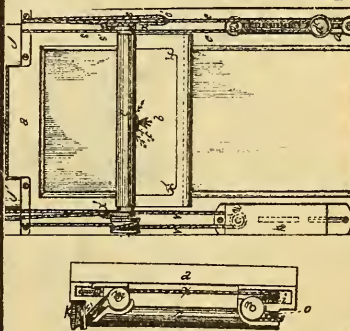
108,188. E. A. RICHMOND
PISTON ROD PACKING.



108,189. W. H. RODEHEAVER.
MACHINE FOR DRESSING FELLIES.

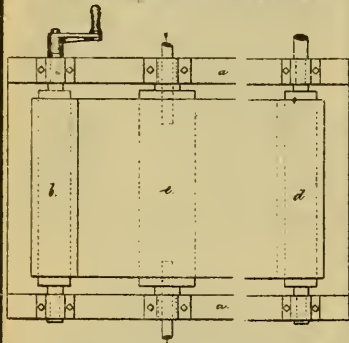


108,190. F. ROOT. CURTAIN FIXTURE.

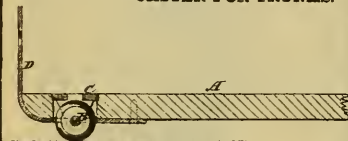


108,191. J. P. RUST REMOVING
GREASE FROM WASTE LEATHER.

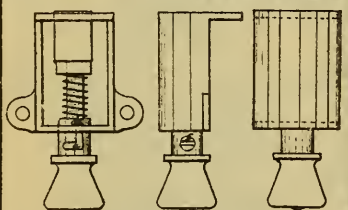
108,192. E. A. SCHUETTE.
APPARATUS FOR WATER PROOFING
FABRICS WITH GUTTA PERCHA.



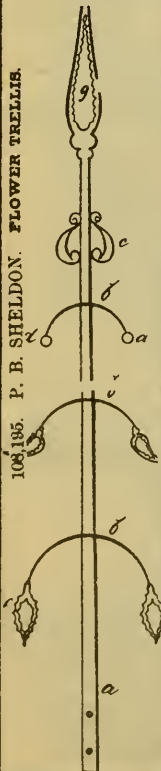
108,193. M. SCHWERIN.
CASTER FOR TRUNKS.



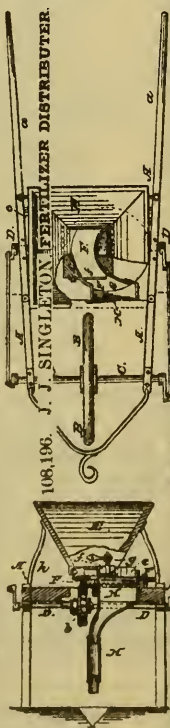
108,194. P. T. SHARE. SASH FASTENER.



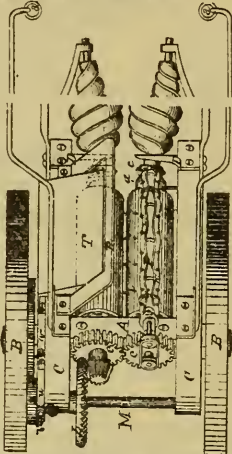
108,195. P. B. SHELDON. FLOWER TRELLIS.



108,196. J. J. SINGLETON. FERTILIZER DISTRIBUTER.



108,197. A. SMITH COMBINED CORN
HARVESTER AND HUSKER.

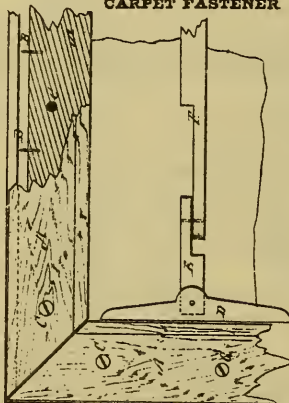


108,198. F. M. SMITH. PURIFYING BRINE
FOR THE MANUFACTURE OF SALT.

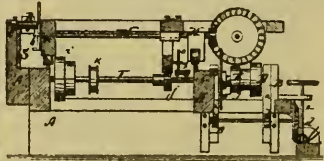
108,199. H. SMITH. WASH FOR THE
CURE OF SCAB IN SHEEP &c.

108,200. J. H. STANTON.

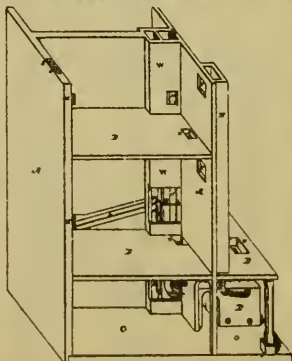
CARPET FASTENER.



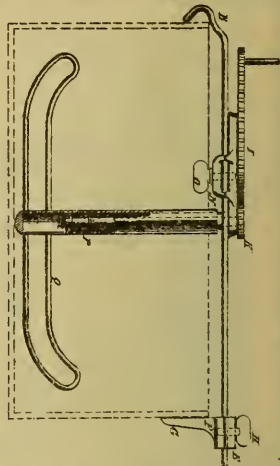
108,201. F. T. STEVENS. SAW MILL.



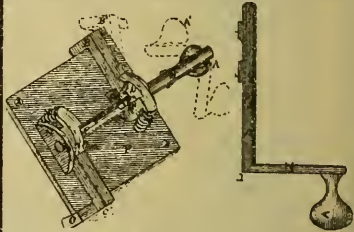
108,202. J. STOVER
APPARATUS FOR HEATING AND
VENTILATING BUILDINGS.



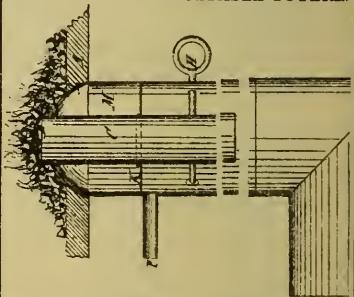
108,203. D. M. SWARTZ. EGG BEATER.



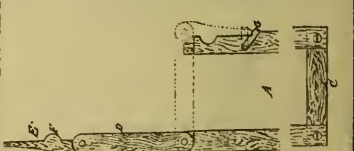
108,204. H. B. SWARTZ. SASH HOLDER.



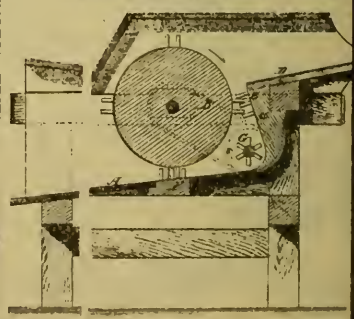
108,205. P. SWEENEY
ADJUSTABLE TUYERE.



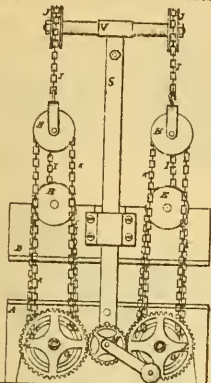
108,206. F. TALBOT. SLEIGH LOCK.



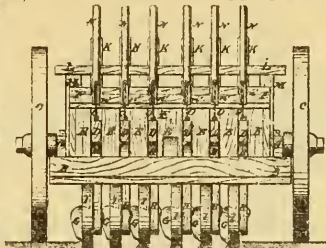
108,207. W. H. TAPPEY,
W. C. LUMSDEN AND A. STEEL.
SHUCK HACKLING MACHINE.



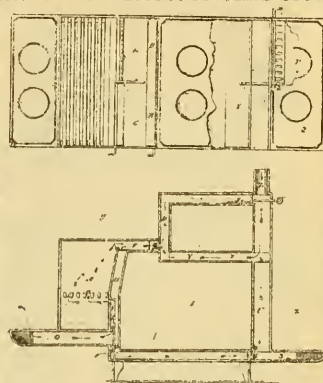
108,208. W. I. TATE. PRESS.



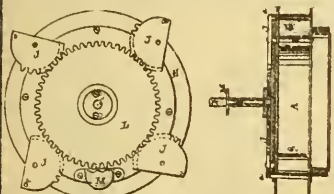
108,214J. W. TREADWAY GANG PLOW.



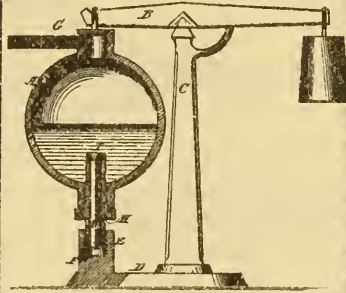
108,220. A. WEMYSS COOKING STOVE.



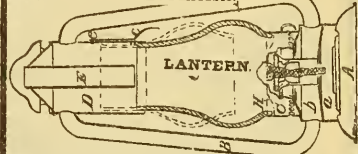
108,209A. P. TEACHOUT WATER WHEEL.



108,215. S. D. TRIPP. STEAM TRAP.

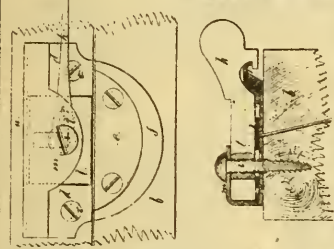


108,221. W. WESTLAKE.



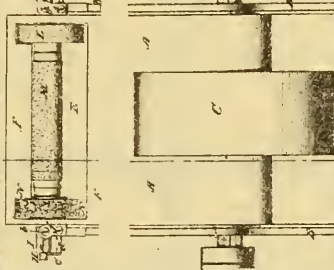
108,210 W. H. THOMAS

BASH FASTENER

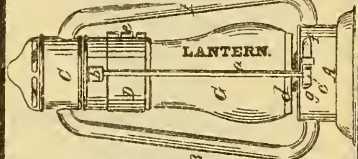


108,216. S. D. TRIPP

LEATHER BUFFING MACHINE.

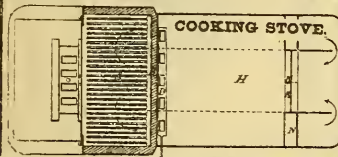


108,222. W. WESTLAKE.



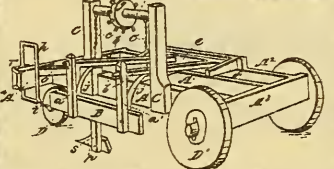
108,211E. L. THOMSON AND A. HURST

COOKING STOVE.

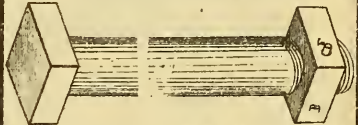


108,217. H. VANNATTA.

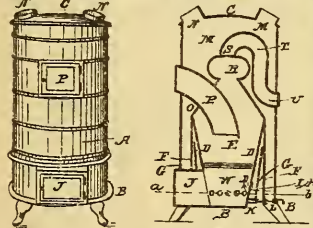
DITCHING MACHINE.



108,223. S. H. WHEELER. NUT LOCK.

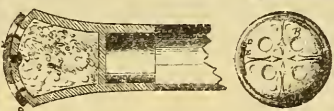


108,212. A. TRAVER HEATING STOVE.



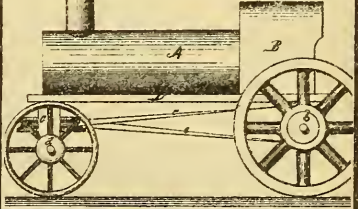
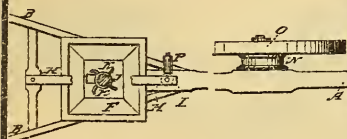
108,213. A. WANNER

HANDLE FOR CANES AND UMBRELLAS

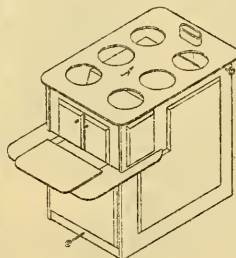
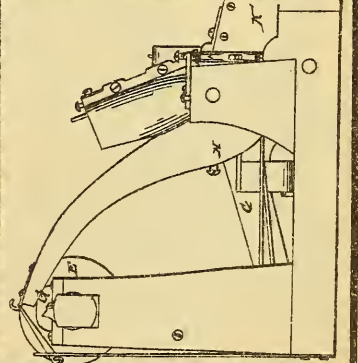


108,224. J. E. WICKHAM

TOY LOCOMOTIVE.

108,213. W. L. TRAYUHAM SEED
PLANTER AND GUANO DISTRIBUTER.

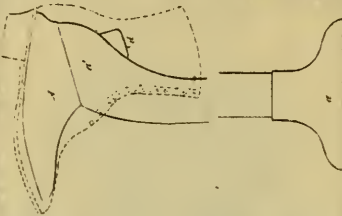
108,219L. DWEBBER COOKING STOVE.

108,225. A. P. WINSLOW
MACHINE FOR MAKING NAILS.

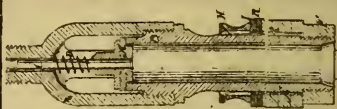
108,226 H. T. WOODMAN WASH BOILER



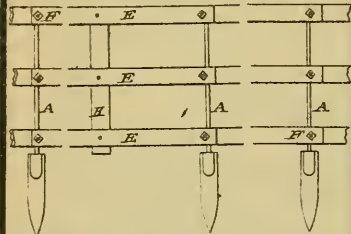
108,231. D. BAINBRIDGE ANVIL LAST.



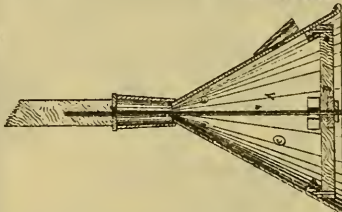
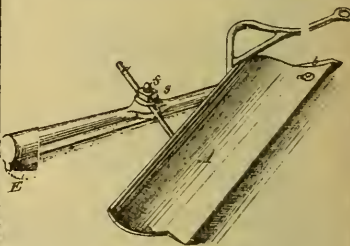
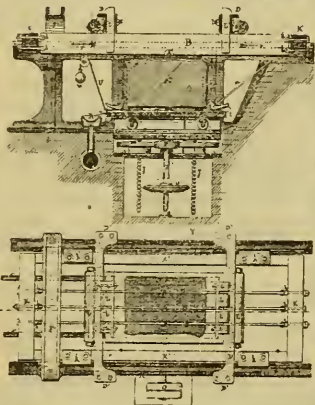
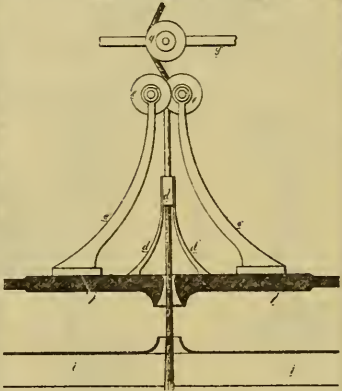
108,237. D. W. CLARK PUMP VALVE.



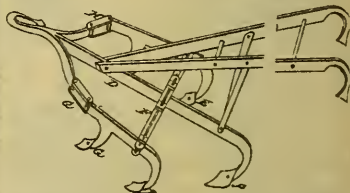
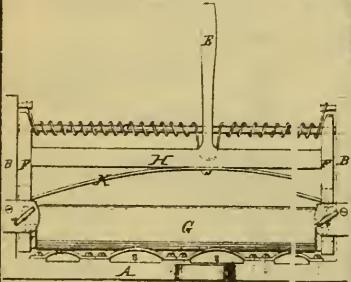
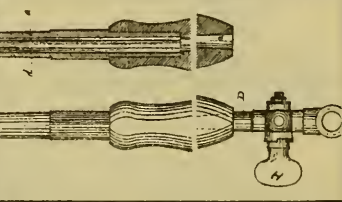
108,227. N. WOOLSEY. FENCE.



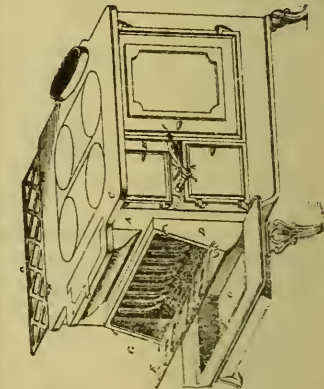
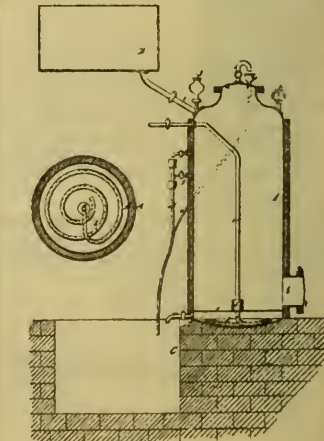
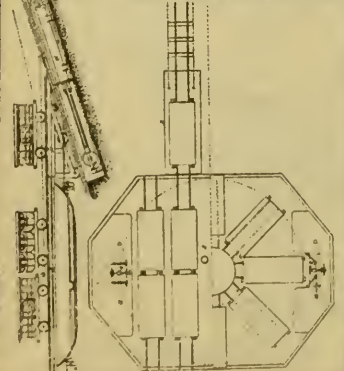
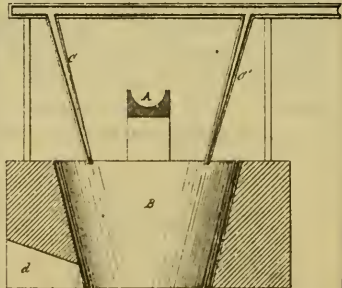
108,232 S. E. BAUDERCHURN DASHER.

108,238. G. CLARK.
ROAD SCRAPER AND DITCHER.108,228. H. AND J. L. YOUNG
STONE CUTTING MACHINE.108,233. E. BAZIN APPARATUS FOR
SPINNING HEMP, FLAX,
AND OTHER FIBROUS SUBSTANCES.

108,239. W. C. CLIFTON. CORN FLOW.

108,229. A. L. ZENT.
LEATHER CUTTING MACHINE.108,234. J. O. BENTLEY AND
J. JACKSON. CURLING IRON.

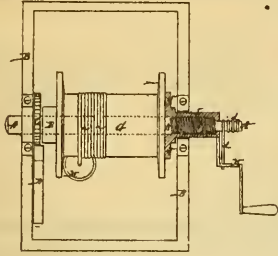
108,240. W. C. DAVIS. COOK STOVE.

108,241. A. H. F. DEININGER
DISINTEGRATING FIBROUS
MATERIAL FOR PAPER PULP. &c.108,230. J. L. ARMAN
PROPELLING VESSELS.108,235. E. J. BIRD EXTRACTING IRON
FROM THE SLAG OF BLAST FURNACES

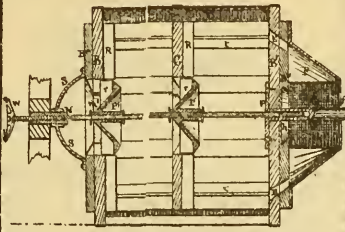
108,236. O. BRUECK. SPRING FAN.



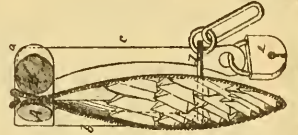
108,242. I. DEKLE. WATER ELEVATOR.



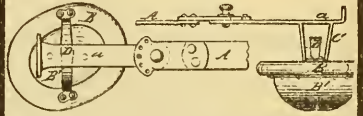
108,246. J. FICKINGER FLOUR BOLT.



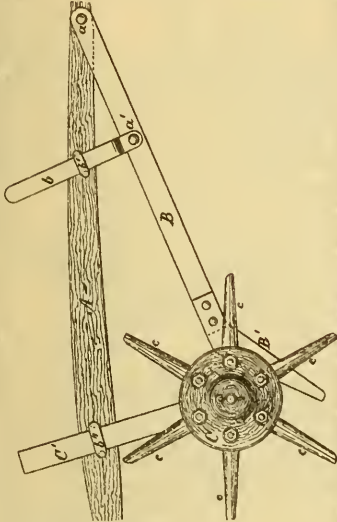
108,251D. G. GAYMAIL BAG FASTENER.



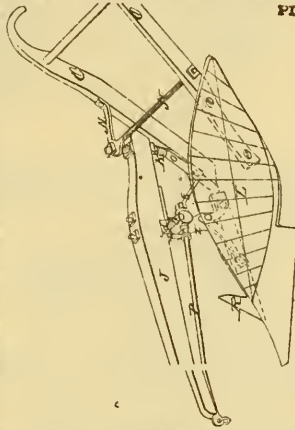
108,252. J. GEISS. TRUSS.



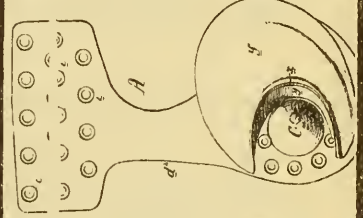
108,243. I. EASTWOOD. FLOW.



108,247. A. AND F. M. FRANKLIN FLOW.

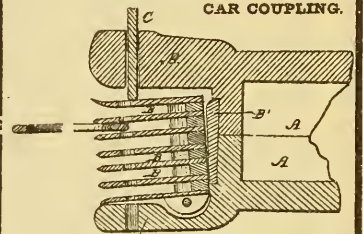


108,253. J. GOODIER. TRUSS.

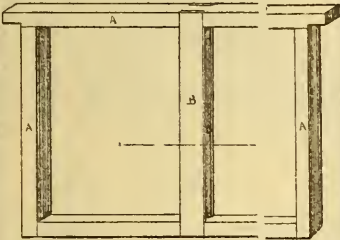


108,254. W. F. GRASLER.

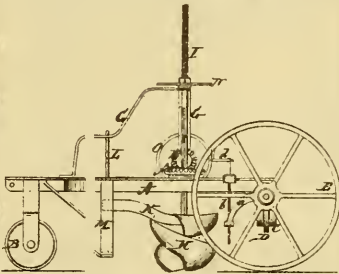
CAR COUPLING.



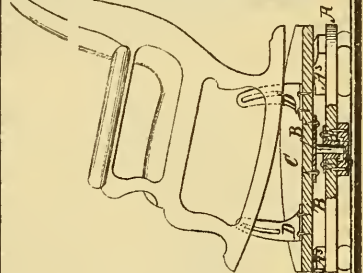
108,244. C. EMBREY. BEE HIVE.



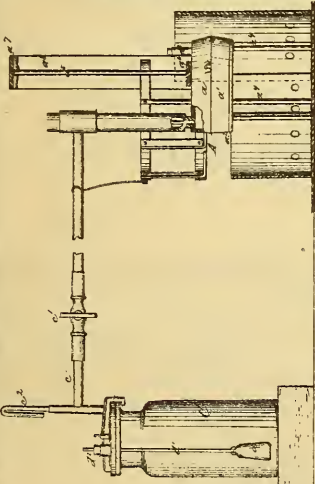
108,248 S. F. GARD DITCHING MACHINE



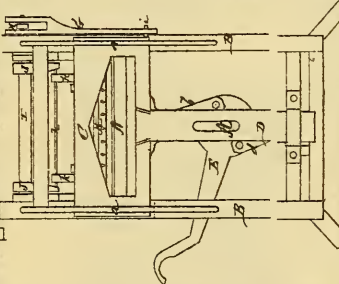
108,255. C. GRAWITZ. ROCKING CHAIR.



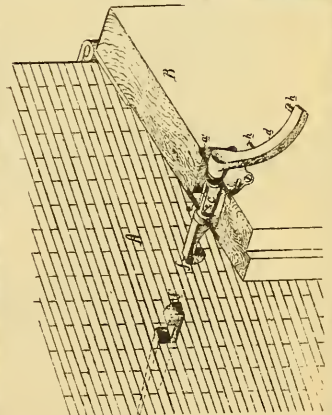
108,245. J. U. L. FEEMSTER CASTING DENTAL PLATES.



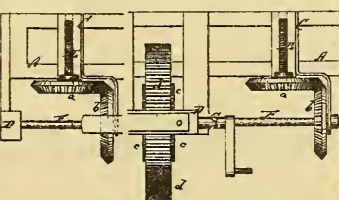
108,249. F. E. GARNER FEED CUTTER

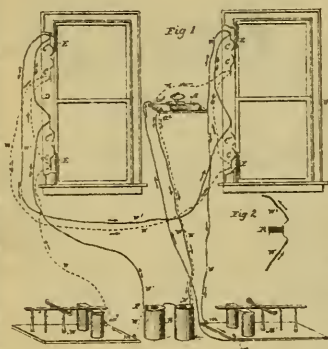
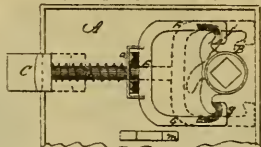


108,256. H. GROW SHUTTER FASTENER

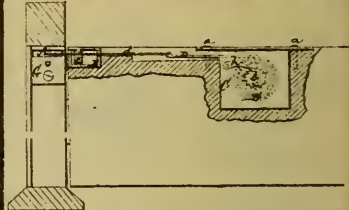
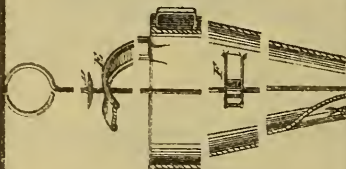
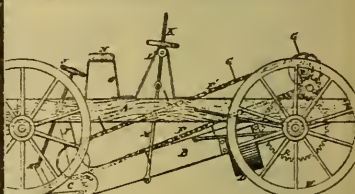


108,250. D. G. GAY. SAW MILL

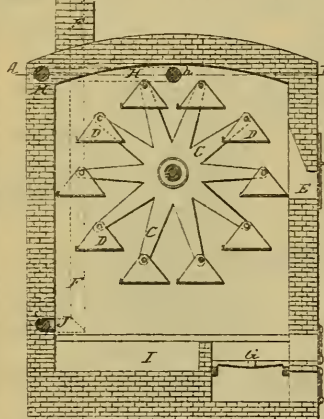


108,257. W. B. GUERNSEY.
ELECTRO MAGNETIC BURGLAR ALARM108,261. A. M. HILL.
REVERSIBLE KNOB LATCH

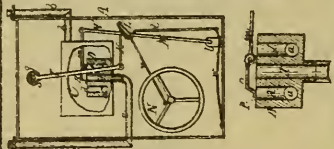
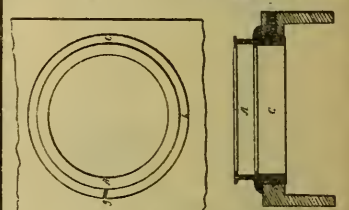
108,268. W. F. KELL'S. DOOR SPRING.

108,262. B. F. HINKLEY. GUANO
DISTRIBUTER AND SEED SOWER108,269. S. M. KING MACHINE FOR
CLEANING AND DITCHING RICE FIELDS

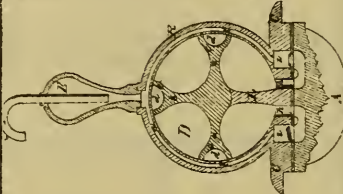
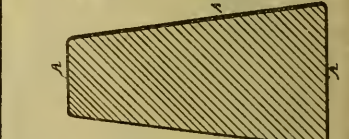
108,258. J. HALL. BAKE OVEN.



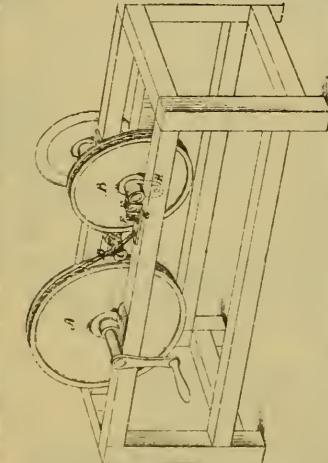
108,263. P. HODGE. DRY GAS METER.

108,270. G. W. KNIGHT
HOLDER OF SPINNING RINGS.

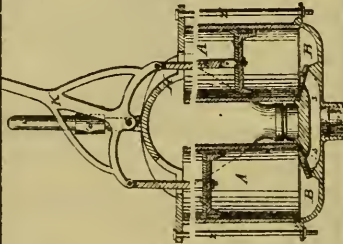
108,264. D. O. HOLMAN. PUMP.

108,271. J. L. LUCAS.
MANUFACTURE OF BLACKING

108,259. G. B. HAMLINBELT GEARING



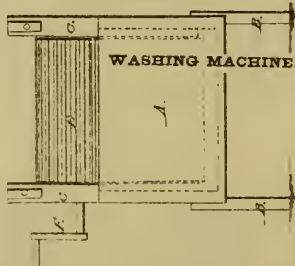
108,265. D. O. HOLMAN. PUMP.



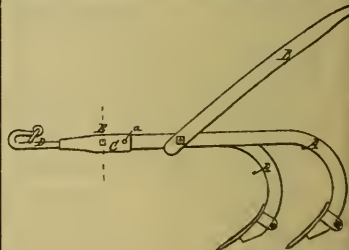
108,272. L. LUPPEN SHOVEL FLOW.



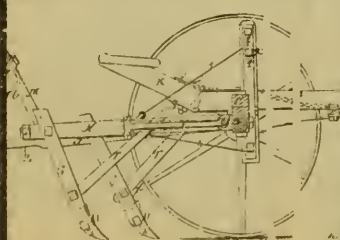
108,266. B. ILLINGWORTH



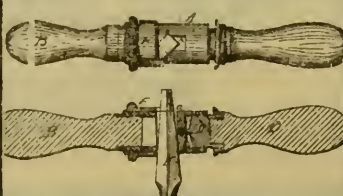
108,273. L. LUPPEN. SHOVEL FLOW



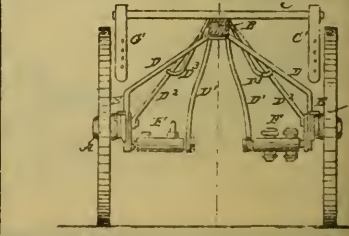
108,260. V. P. HARRIS. CULTIVATOR.



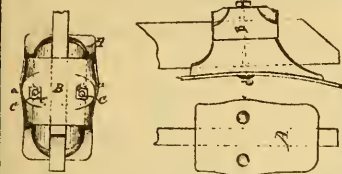
108,267. W. A. IVES. AUGER HANDLE.



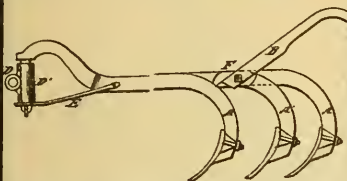
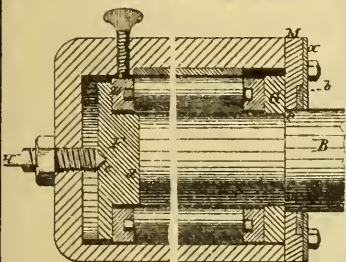
108,274. L. LUPPEN. SHOVEL FLOW.



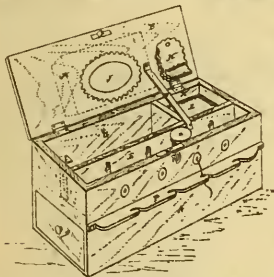
108,275. L. LUPPEN. SHOVEL PLOW.



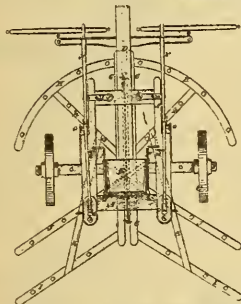
108,276. L. LUPPEN. SHOVEL PLOW.

108,277. G. F. LYNCH
RAILWAY CAR AXLE BOX

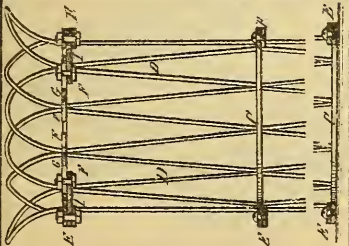
108,278. J. E. MARVEL. WORK BOX



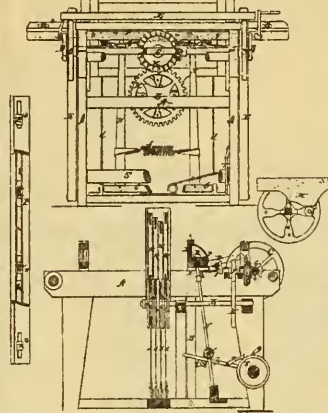
108,279. J. MELLINGER. HARROW.



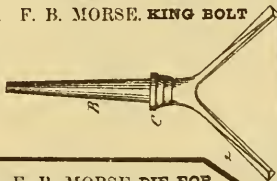
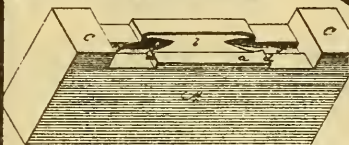
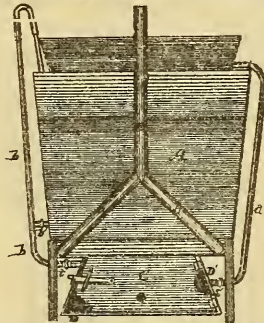
108,280. H. MERRICK. TREE BOX.



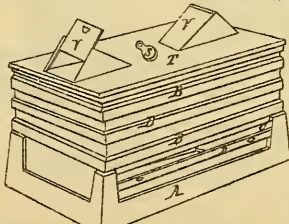
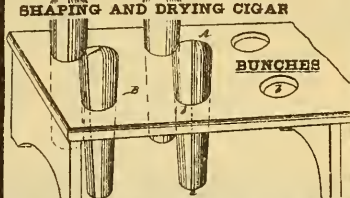
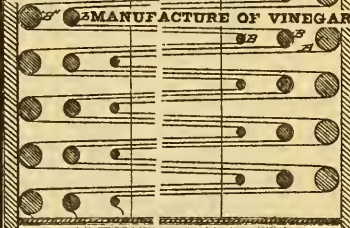
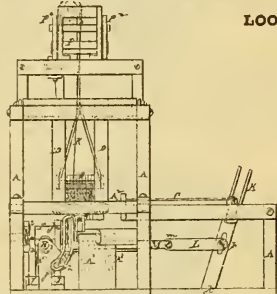
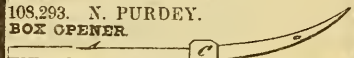
108,281. J. MILLER. LOOM.



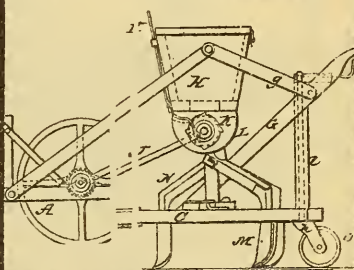
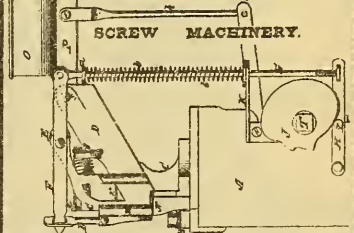
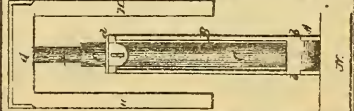
108,282. F. B. MORSE. KING BOLT

108,283. F. B. MORSE. DIE FOR
SWAGING CARRIAGE CLIPS108,284. E. D. MURFEY. IMPREGNATING
FIBROUS MATERIAL FOR PACKING. &c108,285. E. D. MURFEY. SATURATING
FIBROUS MATERIAL WITH POWDERED
SUBSTANCES FOR BEARINGS
AND PACKING108,286. E. D. MURFEY. MATERIAL
FOR PACKING AND BEARINGS.108,287. C. M. NES
MANUFACTURE OF STEEL.108,288. T. J. NEWBY. APPARATUS
FOR COOKING AND EVAPORATING.

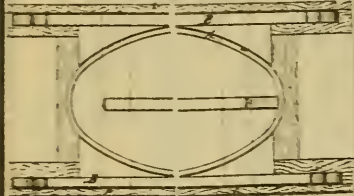
108,289. J. B. OKEY. FRUIT DRIER.

108,290. A. PEARL. MOLD FOR
SHAPING AND DRYING CIGAR108,291. P. PLODECK.
MANUFACTURE OF VINEGAR108,292. W. J. PORTER AND W. CROSS
LOOM.108,293. N. PURDEY.
BOX OPENER.

108,294. J. L. RITER. GRAIN DRILL

108,295. C. D. ROGERS.
FEEDING MECHANISM FOR WOOD108,296. L. W. ROSECRANS
MITER MACHINE.

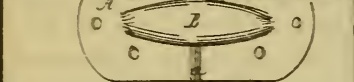
108,297. H. SAGGAN. CHURN.



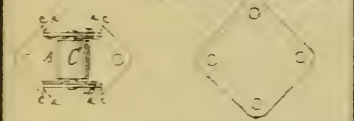
108,298. G. W. SCOTT. COAL VAULT.



108,299. A. J. SESSIONS. TRUNK CLAMP.



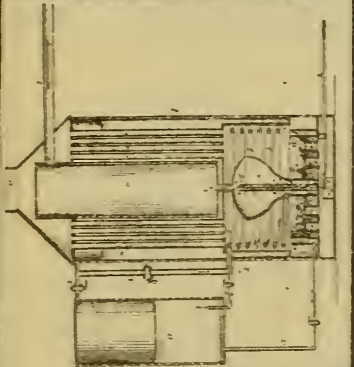
108,300. A. J. SESSIONS. CASTER FOR TRUNKS.



108,301. A. J. SHIRLEY. WELL TUBE.



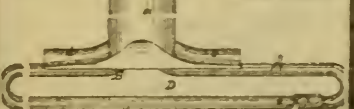
108,302. L. STEVENS. APPARATUS FOR GENERATING GAS FOR HEATING.



108,303. J. W. TUTTLE. CRUTCH.



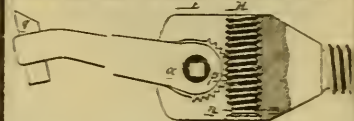
108,304. W. P. VALENTINE. MOP HEAD.



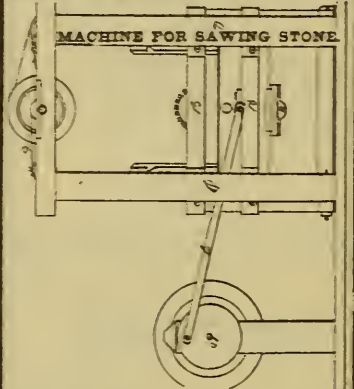
108,305. C. VAN HAAGEN. PLANING MECHANISM.



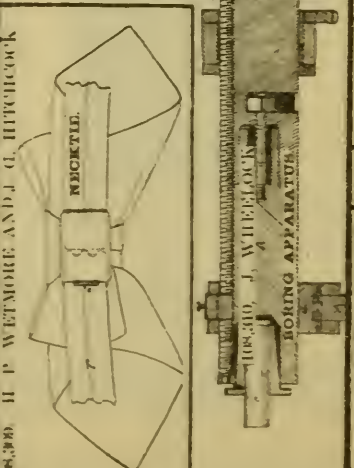
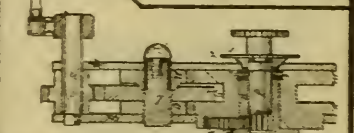
108,306. C. VAN HAAGEN. TURNING AND BORING MECHANISM.



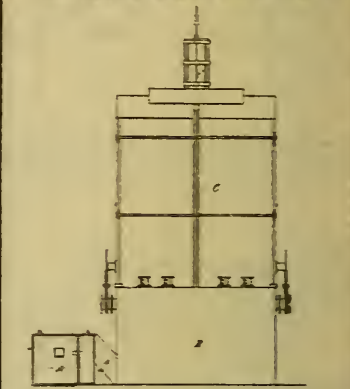
108,307. L. WARD.



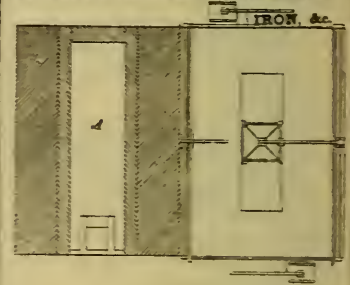
108,308. M. WARNE. HEAD REST.



4149. J. HENDERSON AND J. M. LAWFORD. HOT BLAST STOVE FOR BLAST FURNACES, &c.



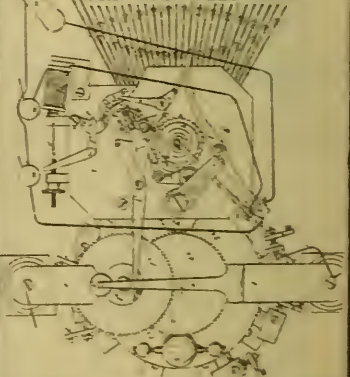
4150. J. HENDERSON AND J. M. LAWFORD. APPARATUS FOR HEATING THE BLAST FOR FURNACES USED IN SMELTING.



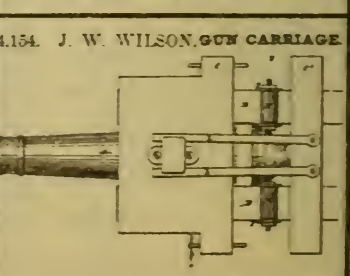
4151. J. McQUIDE. BRUSH.



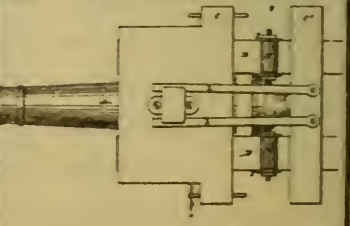
4152. G. M. PHELPS. PRINTING TELEGRAPH.



4153. L. LA BRECHE-VIGER. MANUFACTURE OF CAST STEEL.



4154. J. W. WILSON. GUN CARRIAGE.



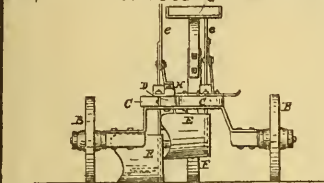
ILLUSTRATIONS OF PATENTS

ISSUED FROM

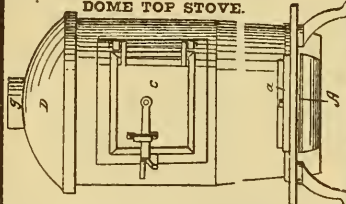
THE UNITED STATES PATENT OFFICE

OCTOBER 18, 1870.

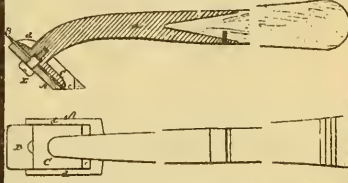
108,311. C. ATWOOD. GANG FLOW.



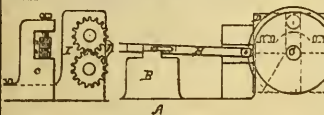
108,316. P. D. BECKWITH. DOME TOP STOVE.



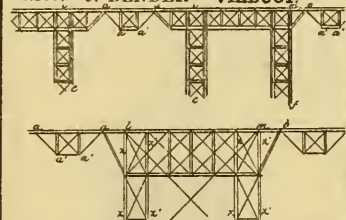
108,321. J. R. BROWN. BOX SCRAPER.



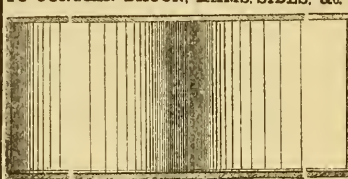
108,312. P. E. AUSTIN. FEED DEVICE FOR POWER PRESSES.



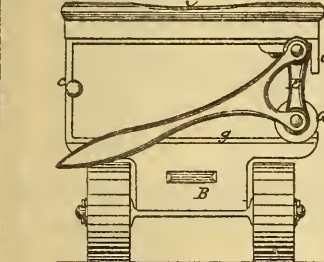
108,317. C. BENDER. VIADUCT.



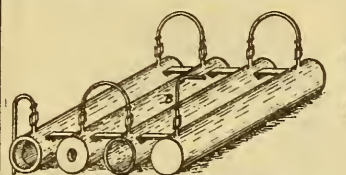
108,322. M. W. BROWN. BOX OR CASE TO CONTAIN BACON, HAMS, SIDES, &c.



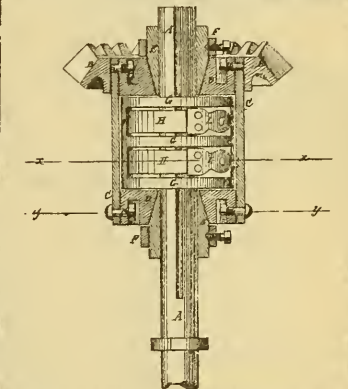
108,313. A. J. BALLARD. DUMPING CAR.



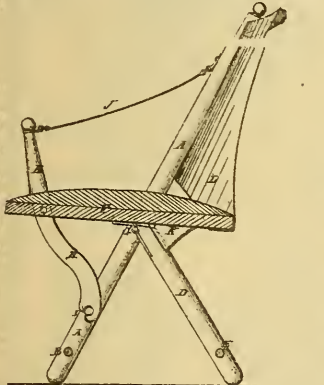
108,318. E. BIGELOW. LIQUID COOLER FOR COOLING LIQUIDS UNDER PRESSURE.



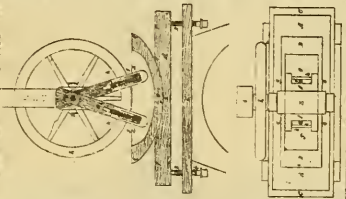
108,323. R. BROWN. ELASTIC SHAFTING.



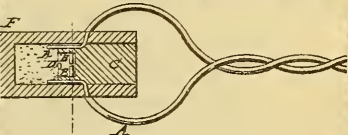
108,314. E. BARTELS. FOLDING CHAIR.



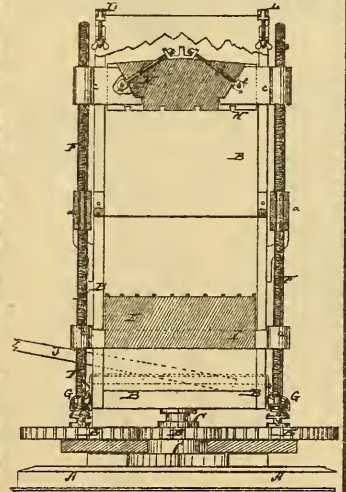
108,319. M. B. BISHOP. MACHINE FOR BOARDING LEATHER.



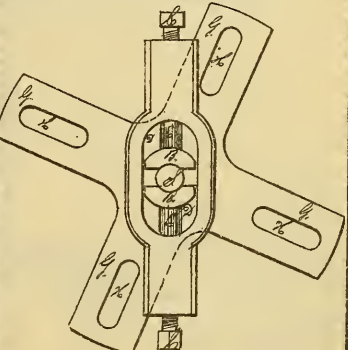
108,324. C. A. AND I. S. BROWNE. ELECTRIC BLASTING FUSE.



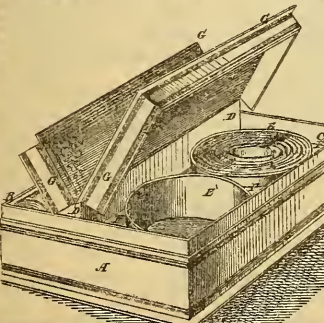
108,320. S. BOOTON. COTTON PRESS.

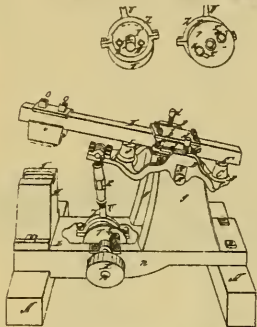


108,325. C. BUSS. LATHE DOG.



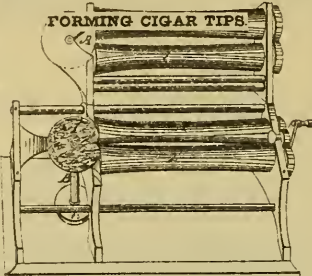
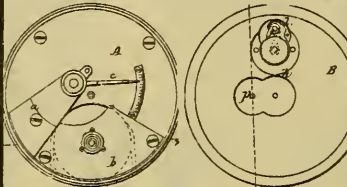
108,315. J. C. BAUER. COMBINED COLLAR AND CUFF BOX.



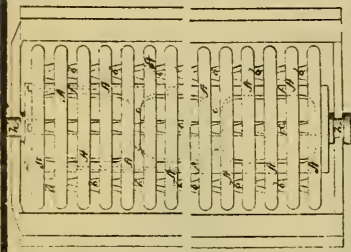
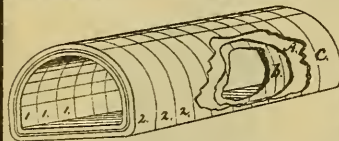
108,326. J. C. BUTTERFIELD
AND J. HAY TRIP HAMMER.

108,331. S. L. COLE.

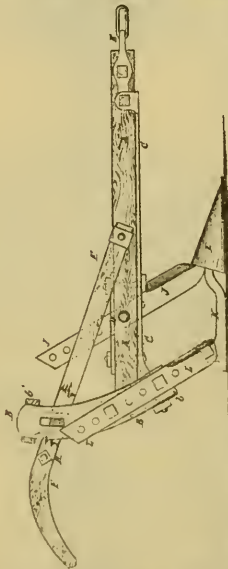
FORMING CIGAR TIPS

108,332. D. G. CURRIER.
CONSTRUCTION OF WATCHES.

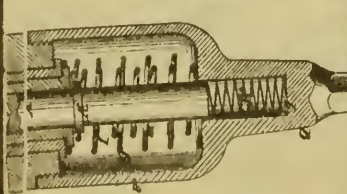
108,327D. BYARD ROTARY GRATE BAR

108,328. M. L. CALLENDER.
SUPERHEATER FOR GAS WORKS, &c.

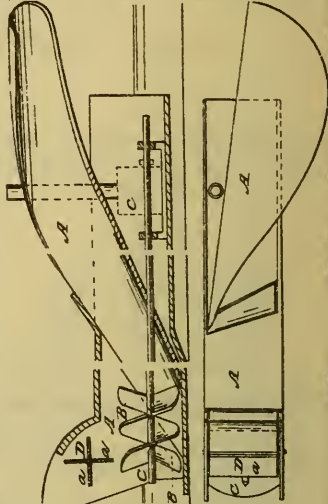
108,329. L. CARLETON SUBSOIL FLOW



108,330. J. F. CASS. WRENCH

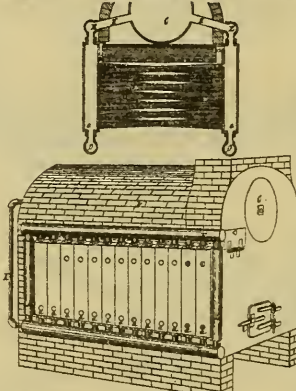
108,337. B. F. DUDLEY
FINISHING COPPER PLATES

108,338. A. DUNBAR. SNOW PLOW.

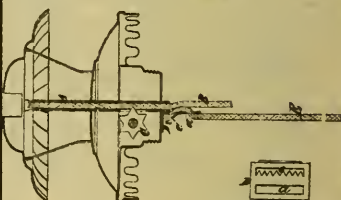
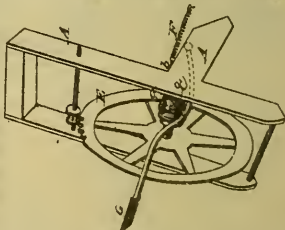


108,333. B. DENSMORE.

SECTIONAL STEAM GENERATOR.

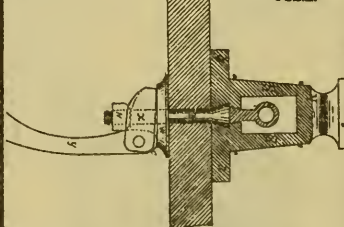


108,339. J. DUNN. LAMP.

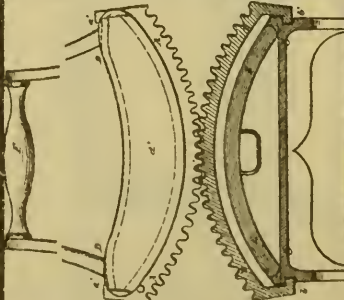
108,340. A. ECKERT.
MECHANICAL MOVEMENT.

108,334D. W. DENTON ROOFING FABRIC

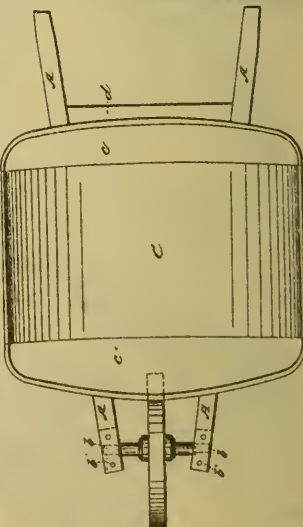
108,335. A. DICK VISE.



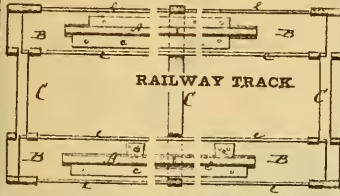
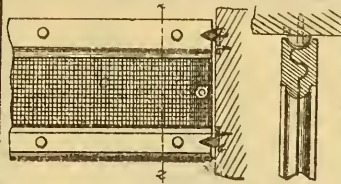
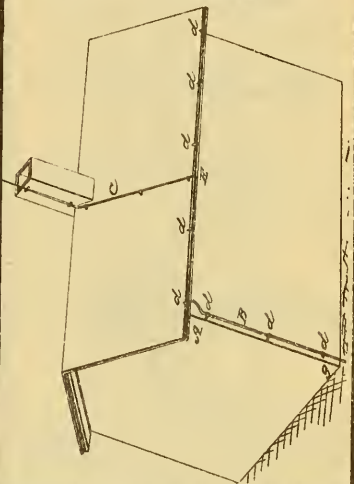
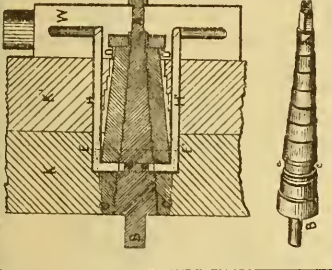
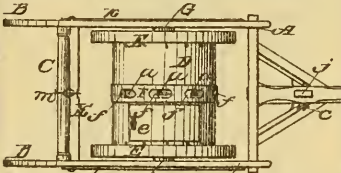
108,336. C. DION FLUTING MACHINE.



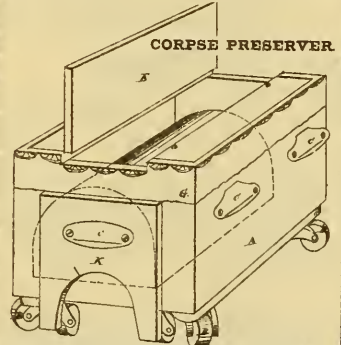
108,341. J. ENNIS. WHEELBARROW



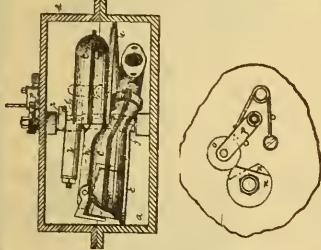
108,342. J. N. FARRAR AND J. STONE

108,348. D. GOODWILLIE.
WINDOW AND DOOR SCREEN.108,354. J. W. HANKENSON AND
W. BAKER COMBINED EAVES
TROUGH AND LIGHTNING ROD.108,343. O. GALLAGHER.
SOCKET FOR LOCK SPINDLES.108,349. J. T. GRAVES. COTTON
SEED AND GUANO DISTRIBUTER

108,350. H. V. GRIFFITH

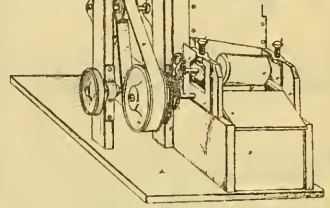


108,344. O. GILMORE. WATER METER

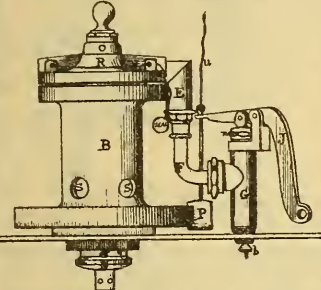
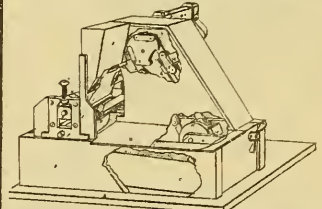
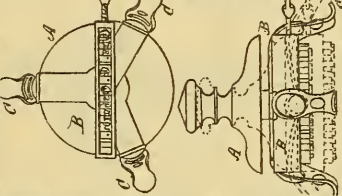


108,355. E. HOLBROOK, JR

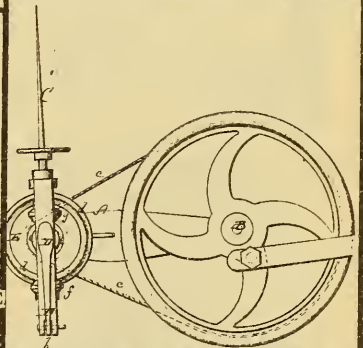
TOBACCO CASING MACHINE



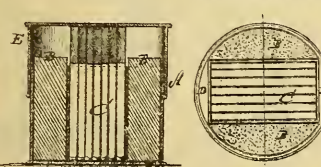
108,345. H. A. GOLL. SAFETY VALVE.

108,351. H. H. H. GROSSKOPF.
HAND STAMP

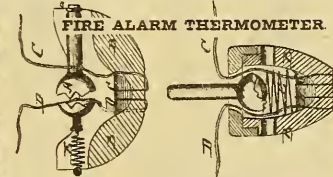
108,356 W. D. HUSESPINNING MACHINE



C. GOLDTHWAIT MATCH SAFE.

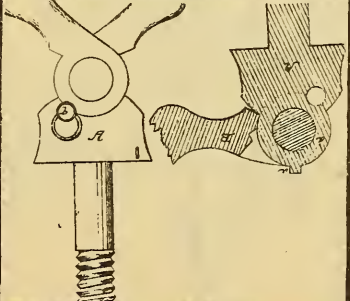
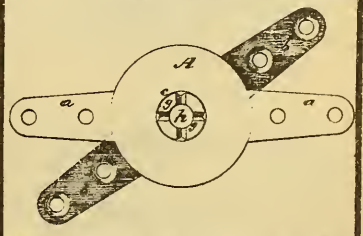
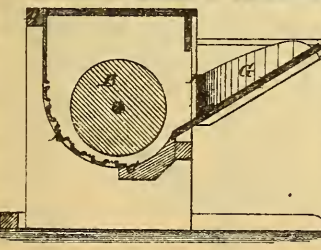


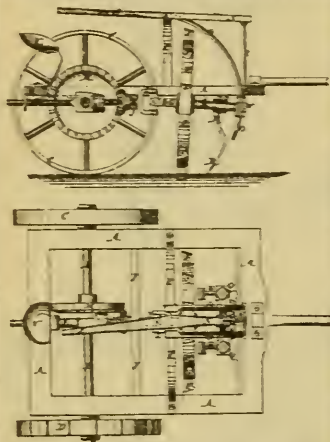
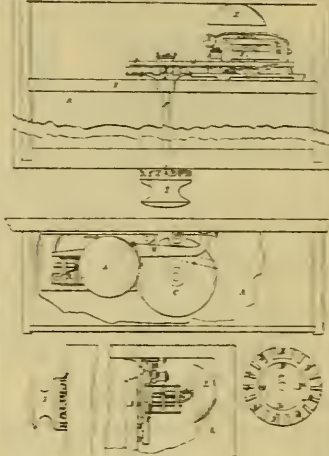
108,352. A. GUEST.



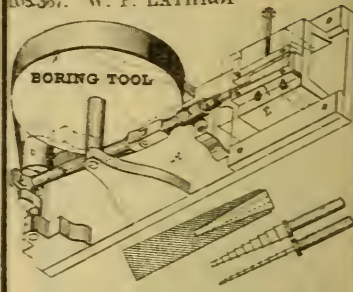
108,353. A. GUILD AND W. H. PIERCE

SELF RELEASING DAVIT RING

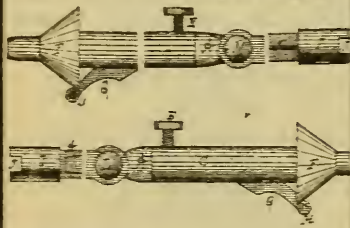
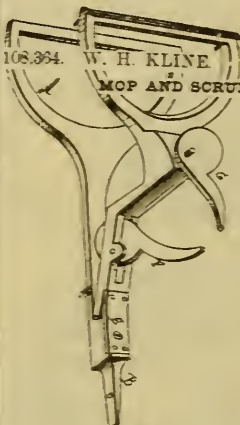
108,357. J. IVES
WHIFFLETREE COUPLING.108,347. J. H. GOLLADAY
CLOVER HULLING ATTACHMENT TO
THRASHING MACHINES.

108,355. S. A. JEFFERSON SELF
ADJUSTING ROTARY COTTON CHOPPER108,363. G. KIMBALL
ALARM LOCK FOR MONEY DRAWERS

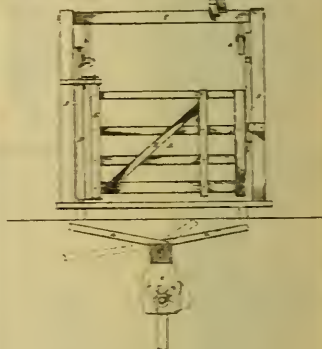
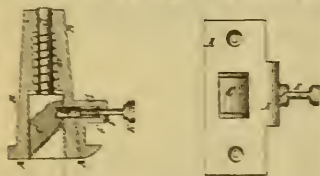
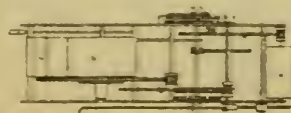
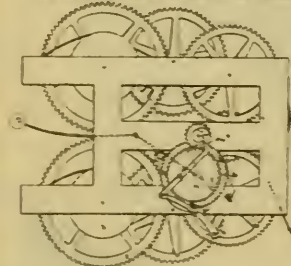
108,367. W. P. LATHROP



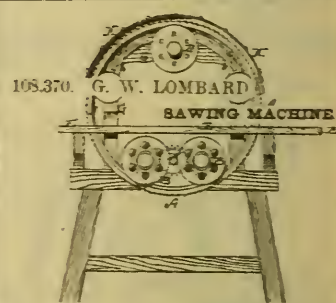
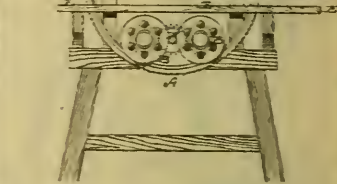
108,359. H. KAHN GUN CHARGER

108,364. W. H. KLINE
MOP AND SCRUBBER HEAD

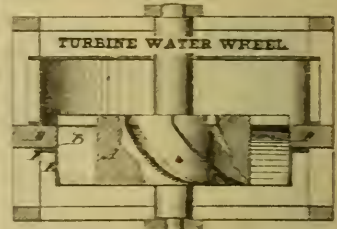
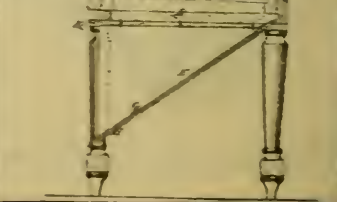
108,368. F. LIVINGSTON GATE

108,360. F. B. KALKBRENNER.
COMBINATION LOCK108,361. E. H. KENT.
GUARD BOLT FOR LATCHES108,362. F. KIENAST.
STRIKING MOVEMENT OF CLOCKS

108,365. A. KNECHT.

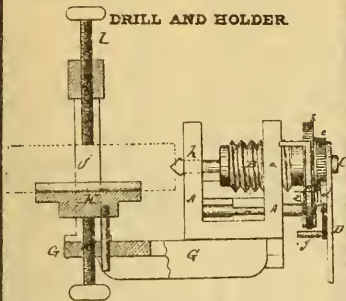
108,366. W. T. KOHINSKI.
BRAKE FOR LAND CONVEYANCES108,369. J. M. LOWENSTEIN
FERTILIZING COMPOUND108,370. G. W. LOMBARD
SAWING MACHINE108,371. J. D. LOVE.
MEDICAL COMPOUND OR LINIMENT.

108,372. W. V. MARTIN

108,373. A. S. MAXWELL
BAKERS TABLE

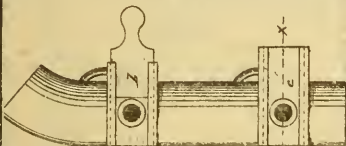
108,374. I. McLAUGHLIN.

DRILL AND HOLDER.



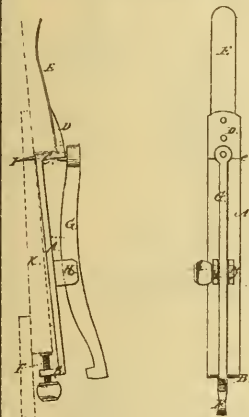
108,375. J. W. MIDDLETON.

PRODUCING CASTINGS DIRECT FROM THE BLAST FURNACE.

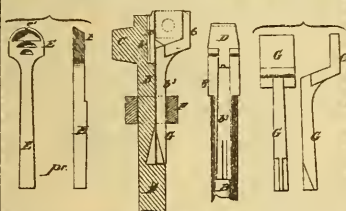


108,376. J. M. MILHOLLIN.

WEATHER BOARD GAGE.

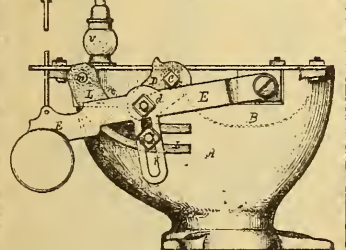


108,377. G. H. MILLER.



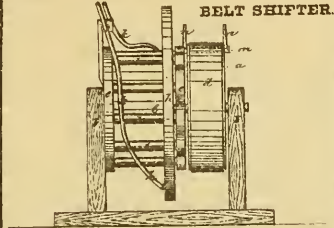
108,378. D. MORRISON AND J. D. SMITH.

WATER CLOSET.



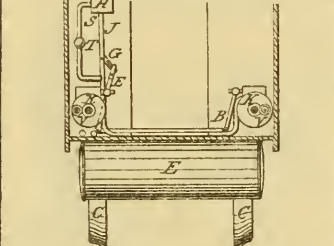
108,379. J. E. MUTCHLER.

BELT SHIFTER.

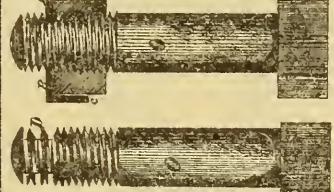


108,390. D. MYERS.

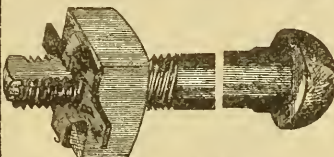
PNEUMATIC STREET CAR.



108,391. F. MYERS. NUT FASTENING.

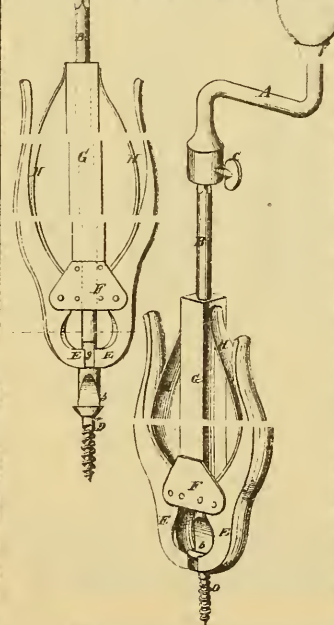


108,392. F. MYERS. NUT FASTENING.

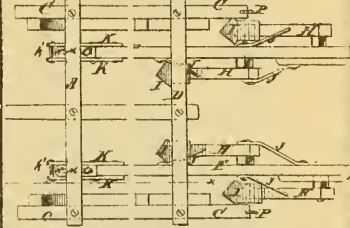


108,393. A. NEWTON.

SCREW DRIVER.

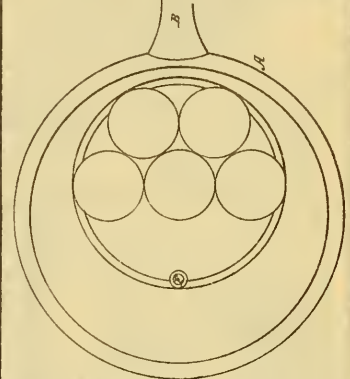


108,384. C. P. NORTON. CULTIVATOR.

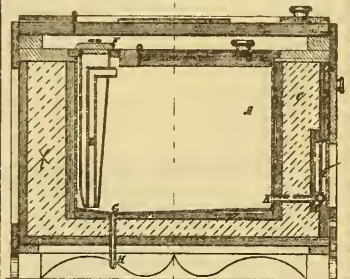


108,385. E. L. PACKARD.

COOKING UTENSIL.

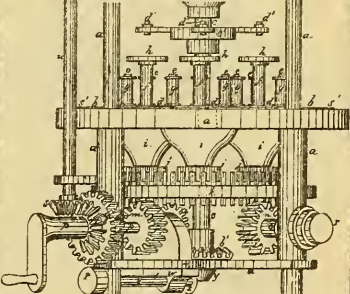


108,386. A. H. PHELPS.



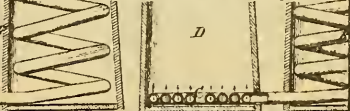
108,387. W. G. PIKE.

MACHINE FOR MAKING ROPE.

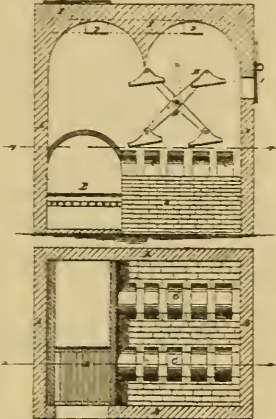
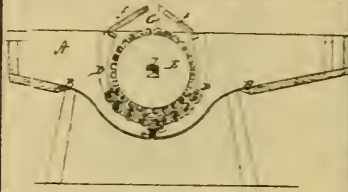
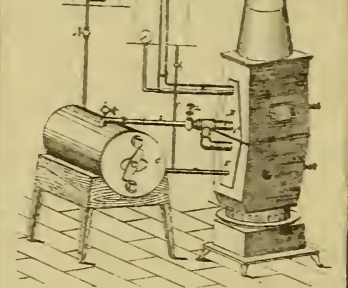
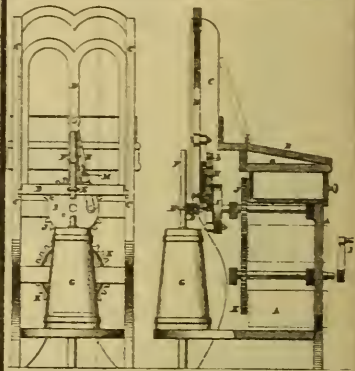


108,388. H. PURDY.

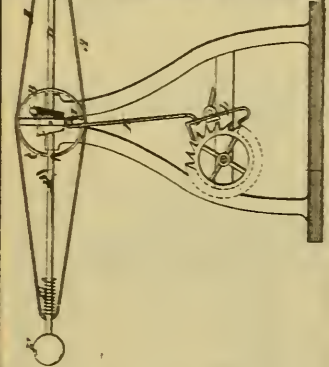
AGING ALCOHOLIC LIQUORS.



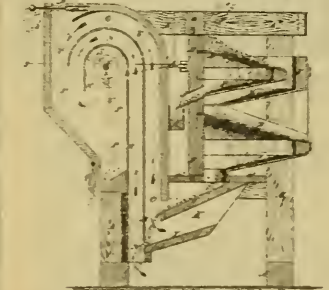
108,339. J. RAINEY. OVEN.

108,393 C. W. REEDER
WASHING MACHINE108,394 J. RIGBY AND P. A. PALMER.
STEAM GENERATOR AND HOT WATER
APPARATUS.108,399. J. J. SLATER.
DESK, BUREAU, AND CHURN POWER.108,390. R. R. RAMSDELL AND
G. A. WHITCOMB

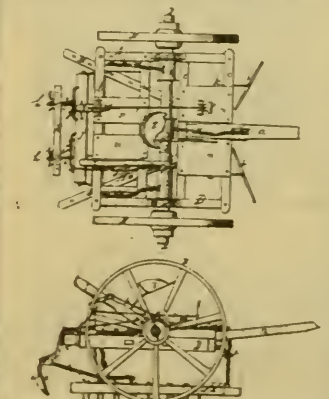
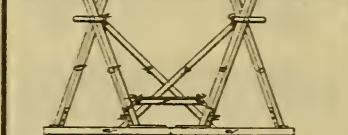
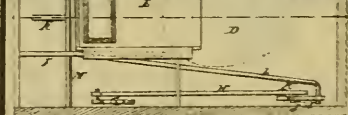
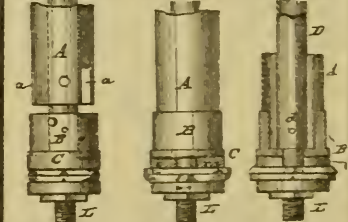
BALANCE PENDULUM FOR CLOCKS;



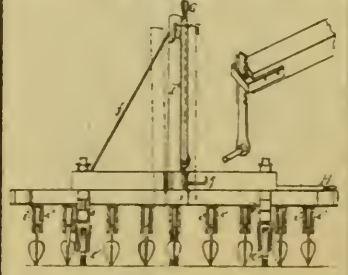
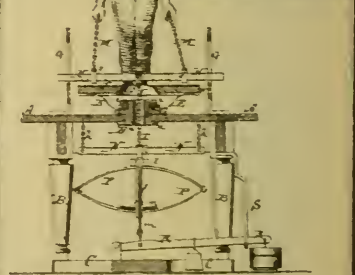
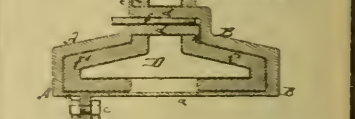
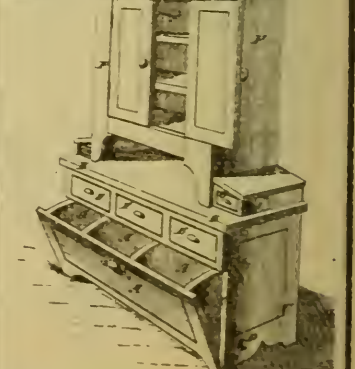
108,391 W. M. REDD GRAIN SEPARATOR

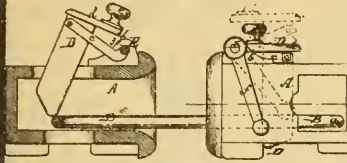


108,392. T. M. REED. CULTIVATOR.

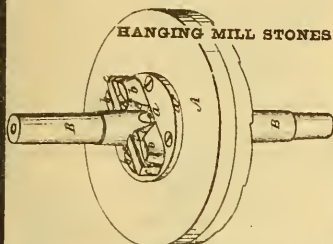
108,395. P. J. SCHOPP APPARATUS
FOR THE SUPPORT OF
SKATERS108,396. H. SHERMAN
EARTH CLOSET.108,397. J. SHOEMAKER. TAMPING
DEVICE FOR BLASTING PURPOSES.

108,398. H. M. SKINNER. CULTIVATOR

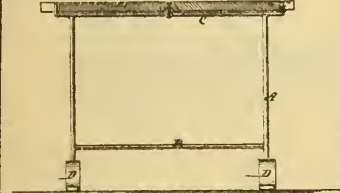
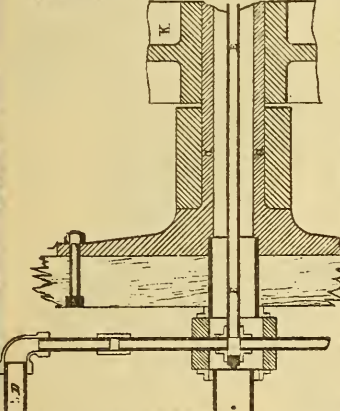
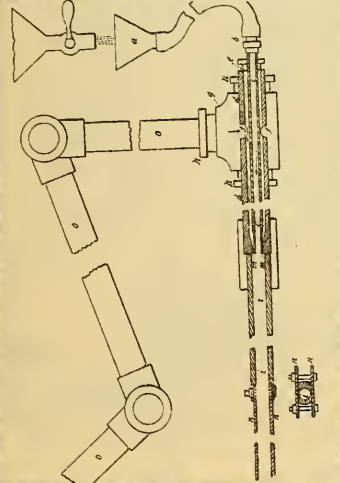
108,400. E. C. SNEED
DUMPING CAR.108,401 J. SMITH.
GYMNASTIC APPARATUS108,402. L. J. SMITH
RAILWAY CHAIR AND CLAMP108,403. W. B. SMITH.
MEAL CHEST OR BIN.

108,404W. B. SNEDAKER
CAR COUPLING.

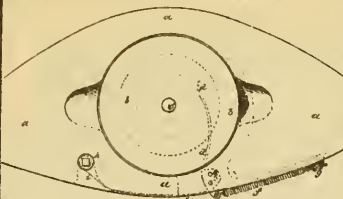
108,405. H. P. STRAUB.



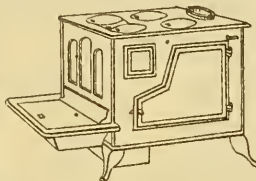
108,406. J. TAFT. TABLE

108,407. S. THOMPSON MACHINE FOR
WASHING AND CLEANING COFFEE108,408B. G. TILGHMAN CUTTING AND
ENGRAVING STONE, METAL GLASS, &c.

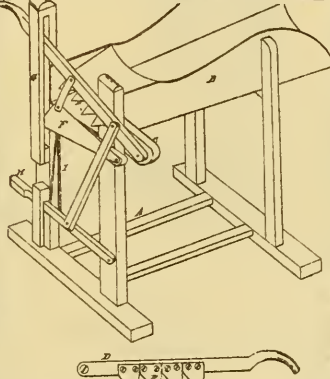
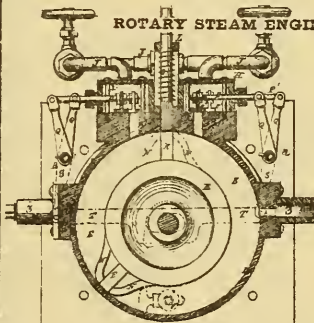
108,409. H. E. TOWLE. SHUTTLE.



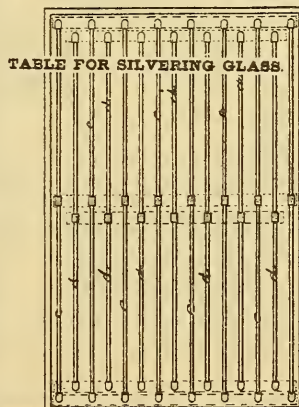
108,410. A. TRAVER COOKING STOVE.



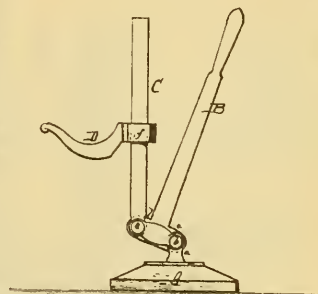
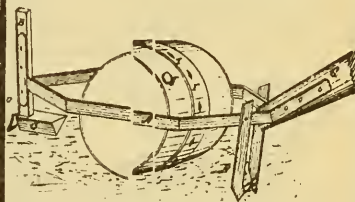
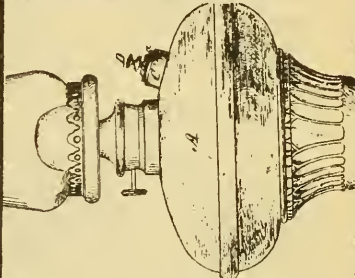
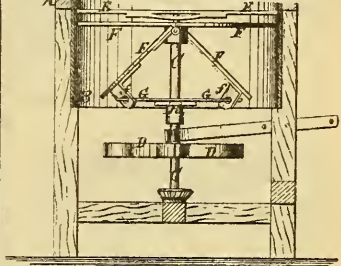
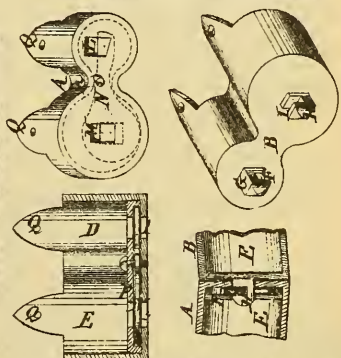
108,411. M. TUELL. STRAW CUTTER.

108,412. W. P. VICKERY.
ROTARY STEAM ENGINE.

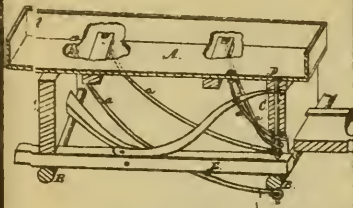
108,413. H. B. WALKER HEATING



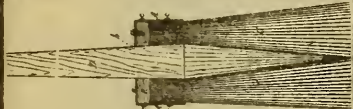
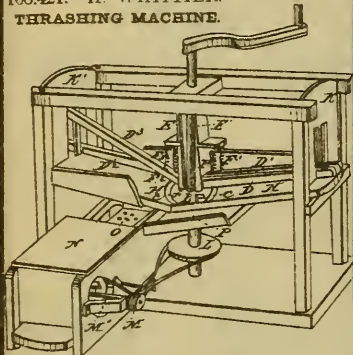
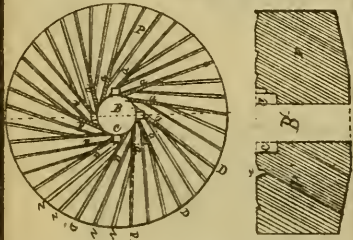
108,414. L. D. WARREN LIFTING JACK

108,415. B. H. WASHINGTON
PLANTER AND FERTILIZER COTTON
DISTRIBUTER.108,416. H. W. M. WASHINGTON
SAFETY DEVICE FOR LAMPS.108,417. E. J. WEAVER.
FLOUR BOLT FEEDER108,418. E. I. WELBOURN
HORSE COLLAR FASTENING.

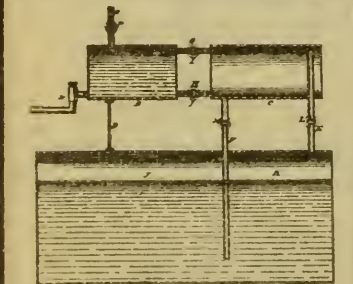
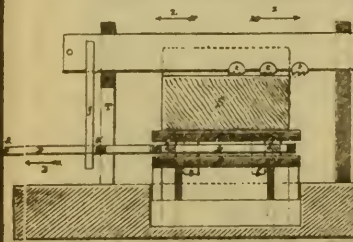
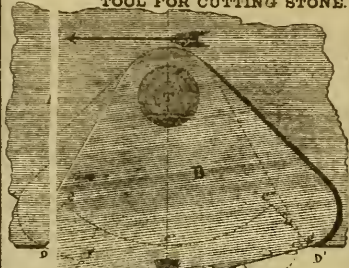
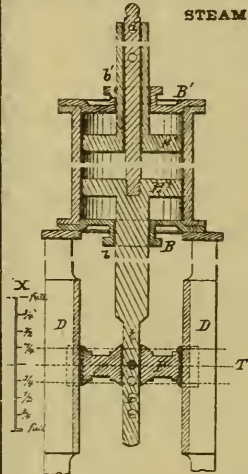
108,419. J. W. WEST. WAGON.



108,420. J. L. WHITINGPAINT BRUSH

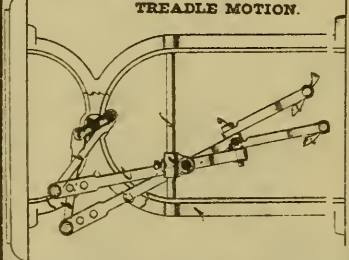
108,421. H. WHITTIER.
THRASHING MACHINE.108,422. J. P. H. WOHLBERG
MILLSTONE DRESS.

108,423. A. R. YOUNG BOILER FEEDER

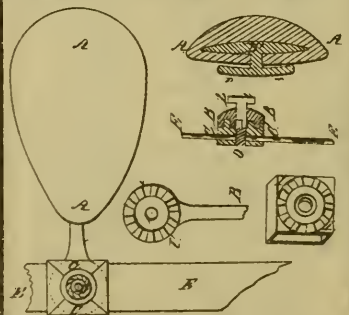
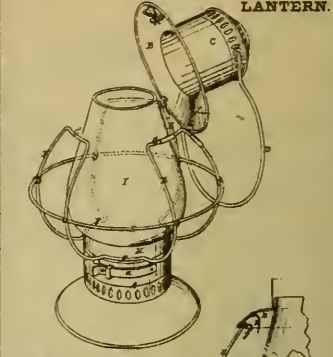
108,424. H. AND J. L. YOUNG.
STONE CUTTING MACHINE.108,425. H. AND J. L. YOUNG
TOOL FOR CUTTING STONE.108,426. H. AND J. L. YOUNG
STEAM ENGINE.

108,427. A. M. ALLEN

TREADLE MOTION.

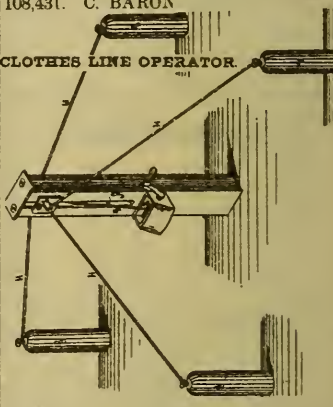
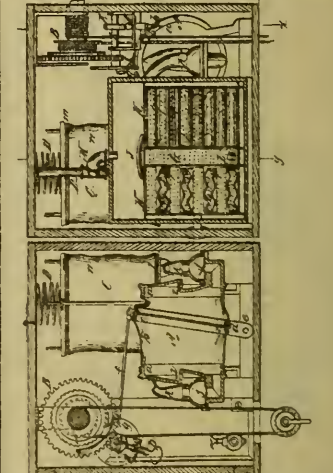
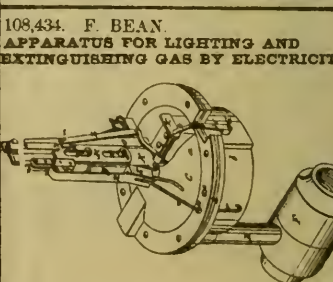


108,428. H. R. ALLEN. TRUSS.

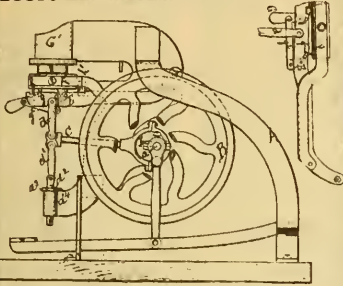
108,429. J. ARMSTRONG METHOD OF
FORMING BIFURCATED ENDS
OF RAILWAY CROSSINGS.108,430. C. S. S. AND A. L. BARON
LANTERN.

108,431. C. BARON

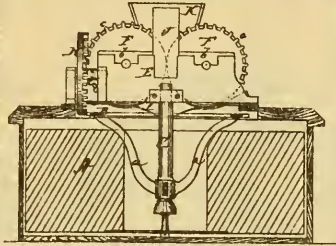
CLOTHES LINE OPERATOR.

108,432. A. BARTHOLF APPARATUS
FOR CARBURETING AIR AND GASES.108,433. E. O. BARTLETT TREATING
THE ORES OF LEAD AND ZINC FOR
THE MANUFACTURE OF PIGMENTS &c.108,434. F. BEAN.
APPARATUS FOR LIGHTING AND
EXTINGUISHING GAS BY ELECTRICITY.

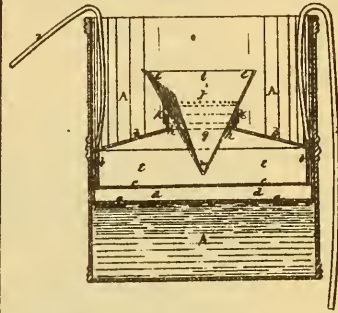
108,435. J. H. DEAN. MACHINE
FOR CUTTING SOLES, &c., FOR
BOOTS AND SHOES.



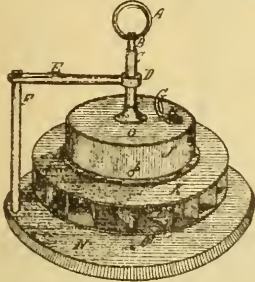
108,442. N. BRYAN.
ATTACHMENT TO MILLS



108,448. A. P. DUSSEY
MILK AND LIQUID COOLER.



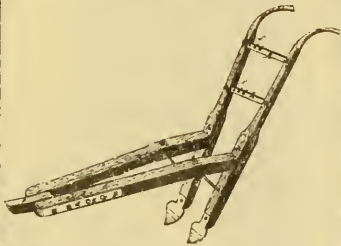
108,436. E. R. BEARDSLEY.
TURBINE WATER WHEEL.



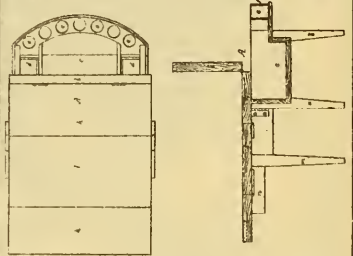
108,443. T. BULLIVANT. WINDOW.



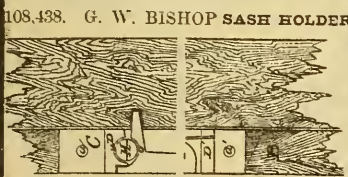
108,444. W. T. BUNN. FLOW.



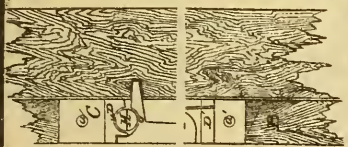
108,449. F. M. B. CLARKWORK TABLE



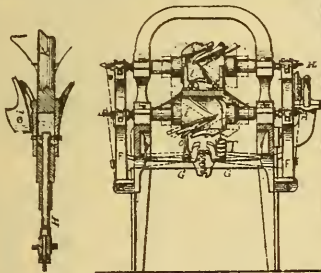
108,437. W. BERRI, JR.
MANUFACTURE OF OIL CLOTH.



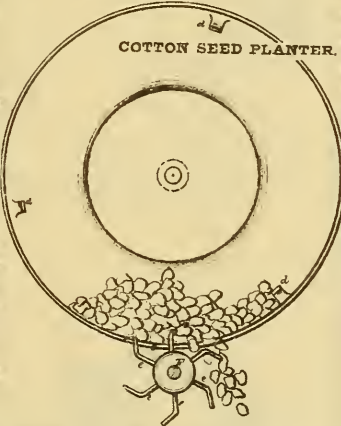
108,438. G. W. BISHOP SASH HOLDER



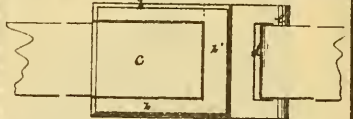
108,439. R. H. AND H. S. BOYNTON
MACHINE FOR DRESSING SPOKES.



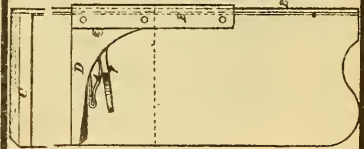
108,445. M. S. BURNS
COTTON SEED PLANTER.



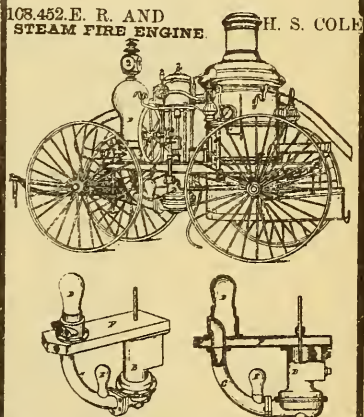
108,450 M. R. CLARKCOTTON BALE TIE.



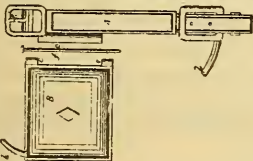
108,451. A. F. CLOUDMAN AND
G. W. COFFIN COMPOSING STICK



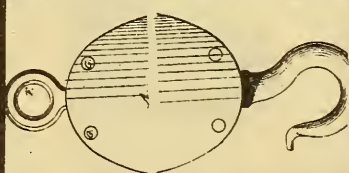
108,452. E. R. AND H. S. COLE
STEAM FIRE ENGINE



108,440. J. L. BROWN.
BLIND FOR HARNESS BRIDLES.



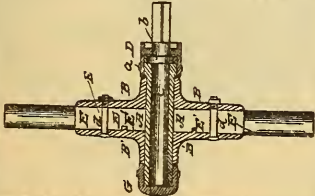
108,446. J. A. BURRHOISTING BLOCK.



108,447
F. L. BUSHNELL BED BOTTOM.



108,441. N. BRYAN.
HUB FOR CARRIAGES.

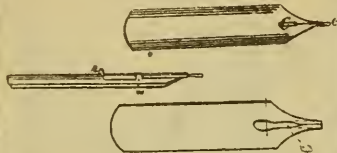


108,453. T. L. COTTEN MEDICAL
COMPOUND FOR HOG CHOLERA

108,454. J. C. COTTINGHAM.
BOAT DETACHING APPARATUS.

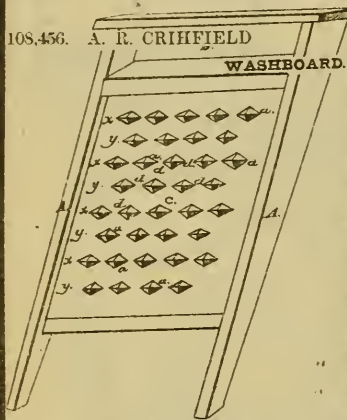


108,455. G. CRANDELL. PEN.



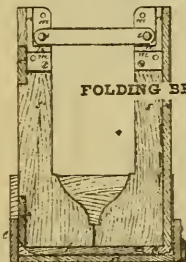
108,456. A. R. CRIHFELD

WASHBOARD.

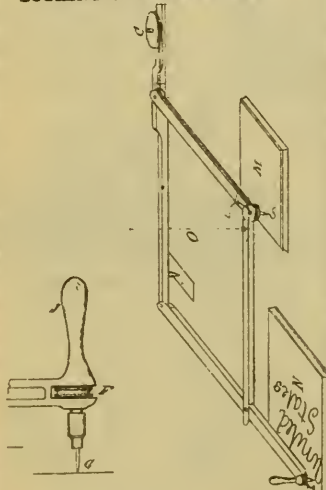


108,457. M. CROSBY.

FOLDING BEDSTEAD.

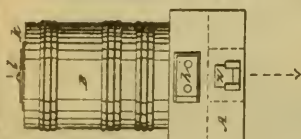


108,458. W. M. DAVIS. MACHINE FOR ORNAMMENTING AND LETTERING LOOKING GLASSES, SIGNS &c.

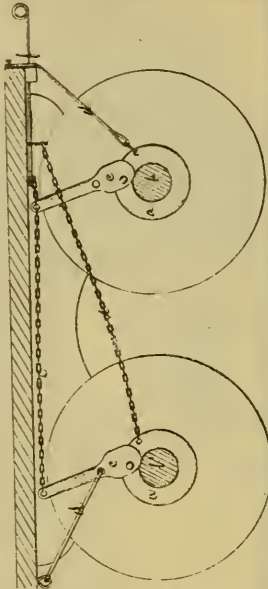
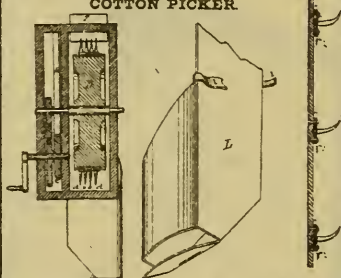
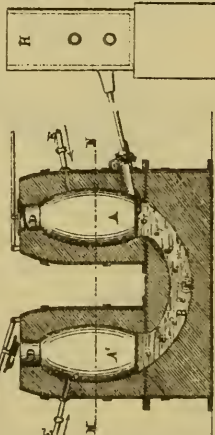


108,459. I. DE HAVEN

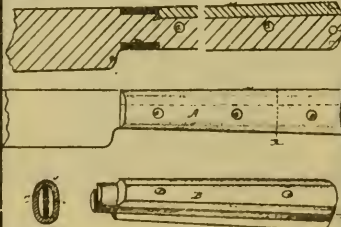
HEATING STOVE.



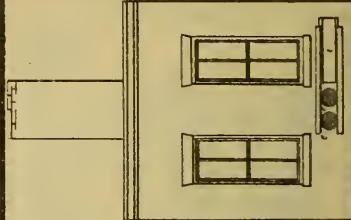
108,460. D. A. DICKINSON. CAR STARTER.

108,461. B. I. DREESON
COTTON PICKER.108,462. C. M. T. DU MOTAY.
TREATING COPPER PYRITES.

108,463. E. G. DURANT. TABLE CUTLERY.

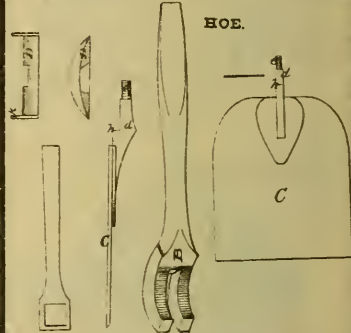


108,464. E. J. DURANT. VENTILATOR.



108,465. A. ELLIS AND O. ALBERTSON

HOE.



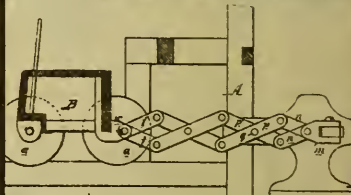
108,466. H. H. ELWELL.

KEY FOR DOORS, &c.

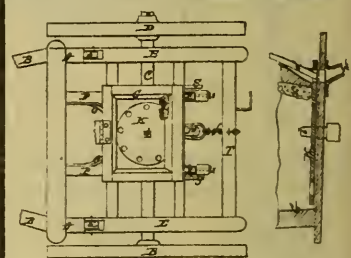
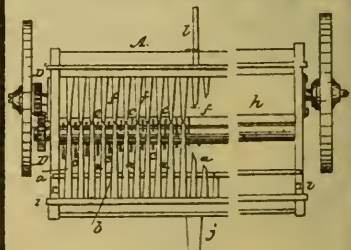


108,467. J. ENTWISTLE.

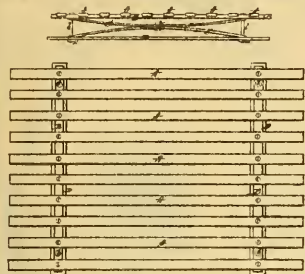
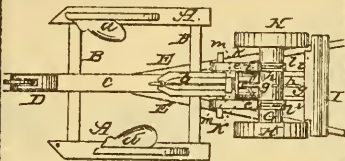
SELF ACTING MULE, &c. FOR SPINNING



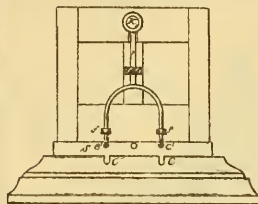
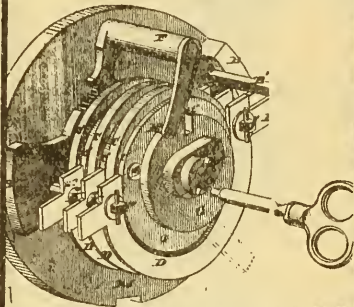
108,468. R. ERDLY. CORN PLANTER.

108,469. S. L. FRASER. MANURE
DISTRIBUTOR AND SEED SOWER

108,470. S. B. FREEMAN BED BOTTOM

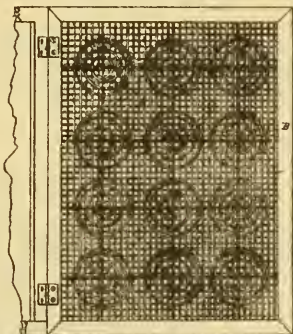
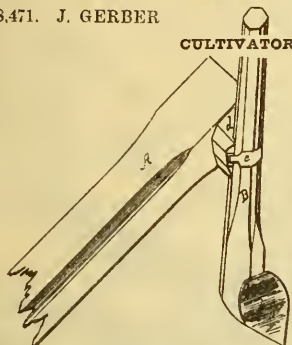
108,476. J. N. HANNON
COTTON FLOW AND PLANTER

108,480. C. HICKS. WEATHER STRIP.

108,477. W. B. HATCH
SPRING CUSHION FOR CAR SEATS.108,481. J. C. HINTZ, JR.
PERMUTATION LOCK

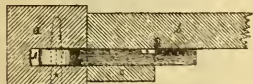
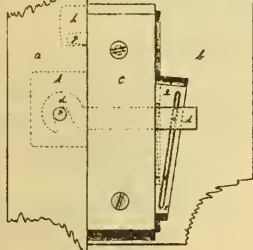
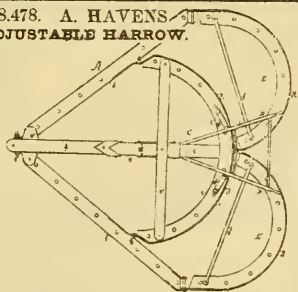
108,471. J. GERBER

CULTIVATOR

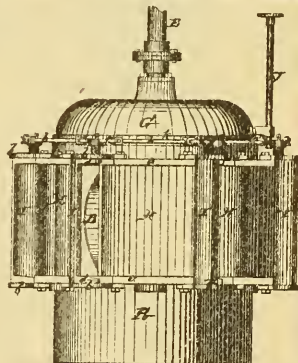


108,472. E. F. GILBERT.

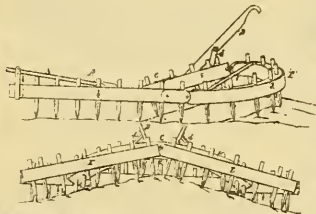
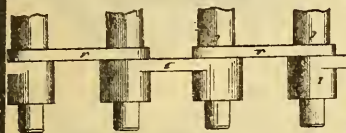
BEDSTEAD FASTENING

108,478. A. HAVENS
ADJUSTABLE HARROW.

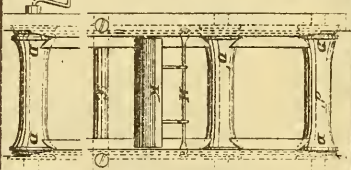
108,482 D. O. HOLMAN WATER WHEEL.



108,473. J. GOOD. CRAWL.



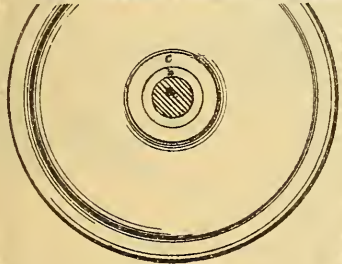
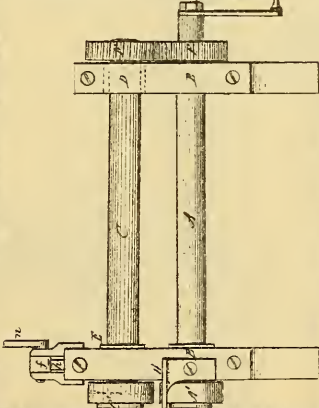
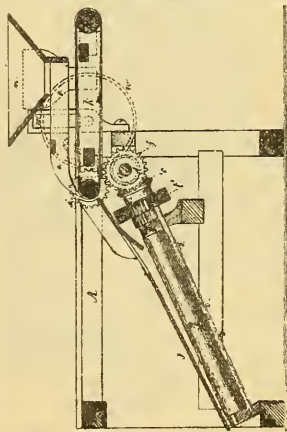
108,483. J. HUGHES. LADDER.

108,474. F. GRIFFIN AND R. TARR JR.
COPPER PAINT FOR SHIPS BOTTOMS &c

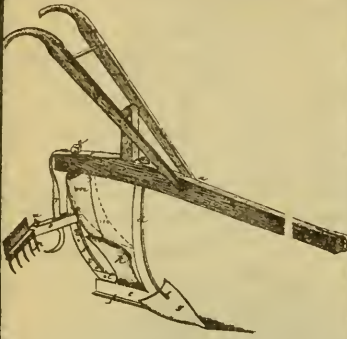
108,475

J. HAMILTON AND G. F. MORSE

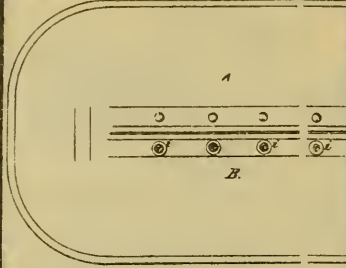
CHANGEABLE GAGE CAR WHEEL.

108,479. A. M. HEALY AND
C. H. RAYMOND. MACHINE FOR
MARKING CARPENTERS'
SQUARES.108,484. M. C. JEFFERS
CORN HUSKING MACHINE

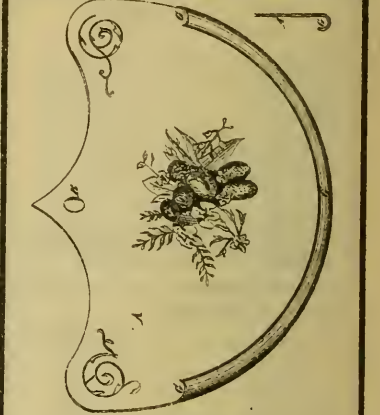
108,485 J. H. JOHNSON SUBSOIL PLOW.



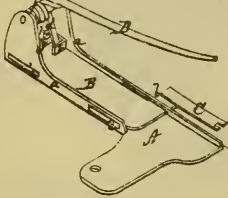
108,491. H. T. LEESHOE FASTENING



108,497 B. K. MALTBY WALL PROTECTOR



108,486. A. JOHNSTON RUFFLING ATTACHMENT FOR SEWING MACHINES

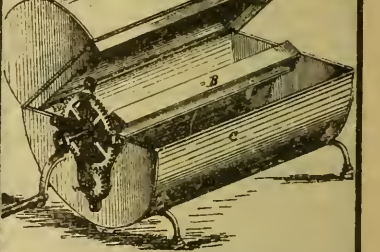


108,492. A. M. LESLIE. RUFFLER FOR SEWING MACHINES.

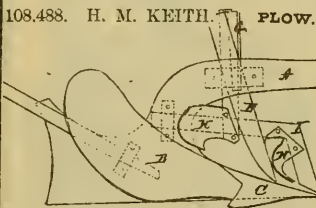


108,498. H. S. MALTBY

EGG AND CAKE BEATER

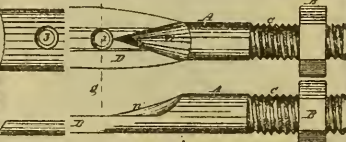


108,487. M. L. KEEN. MANUFACTURE OF PAPER STOCK

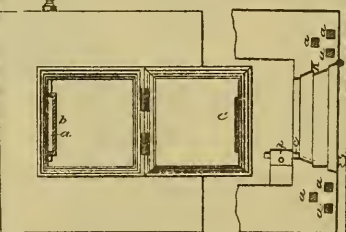


108,488. H. M. KEITH. PLOW.

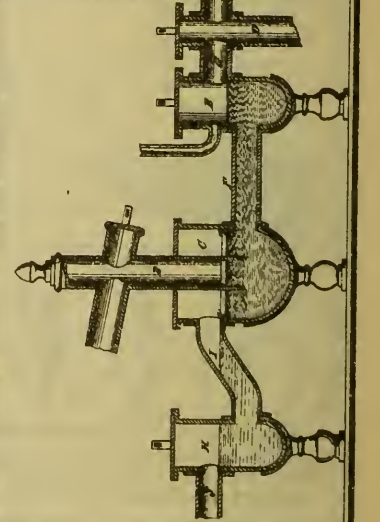
108,493. W. J. LEWIS AND H. W. OLIVER, JR. STRAP BOLT FOR WAGON BEDS



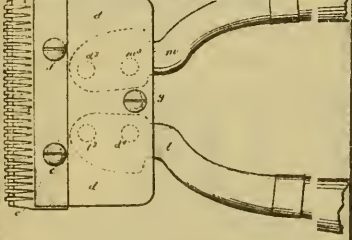
108,494. L. LILLIE. IRON SAFE.



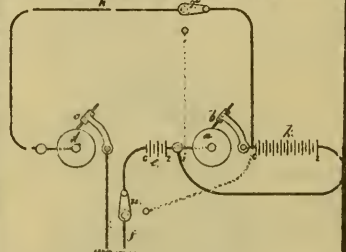
108,499. E. D. McCracken APPARATUS FOR SEPARATING GAS TAR AND AMMONIACAL LIQUOR



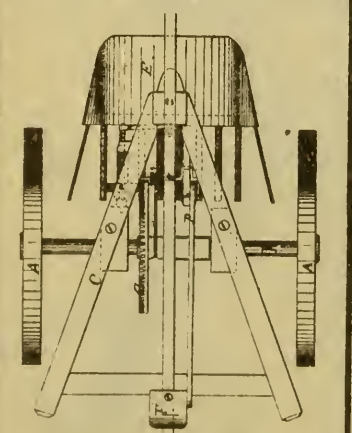
108,489. H. KNIGHT INSTRUMENT FOR CLIPPING OR SHEARING HORSES, &c.



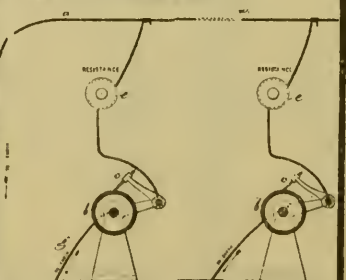
108,495. G. LITTLE ARRANGEMENT OF ELECTRICAL CIRCUITS FOR AUTOMATIC TRANSMITTING INSTRUMENTS.



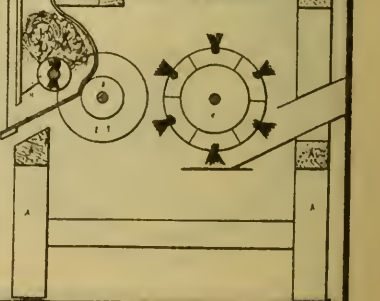
108,490. M. W. KNOX POTATO DIGGER



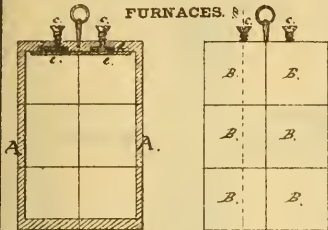
108,496. G. LITTLE. CHEMICAL TELEGRAPH.



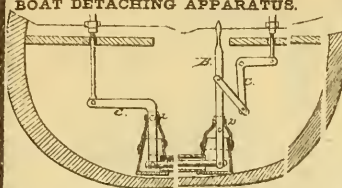
108,500. R. McKENNA COTTON GIN.



108,501. S. McLAUGHLIN SLIDE DOOR
FOR HEATING AND PUDDLING
FURNACES.



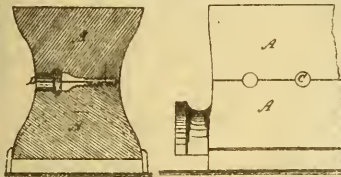
108,507. M. V. NOBLES
BOAT DETACHING APPARATUS.



108,514. L. POEY
MANUFACTURE OF SUGAR



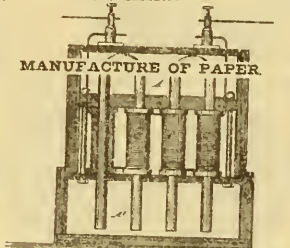
108,502. T. MEIKLE.
DIE FOR SWAGING WRENCHES.



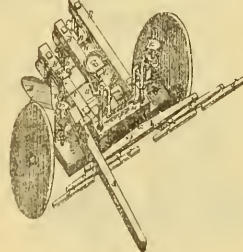
108,508. W. W. OGLESBY
MEDICAL COMPOUND

108,509. C. E. O'HARA

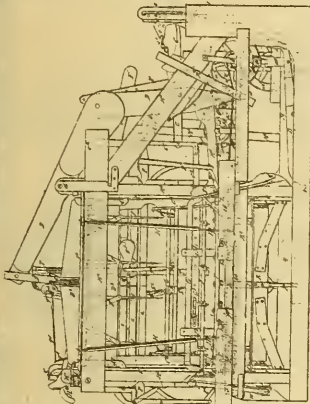
MANUFACTURE OF PAPER



108,516. J. L. PURCELL GANG PLOW.

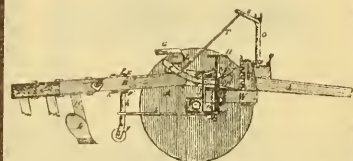
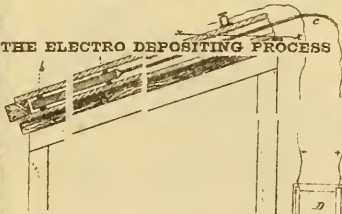


108,503. L. G. MERRILL.
MORTISING MACHINE.

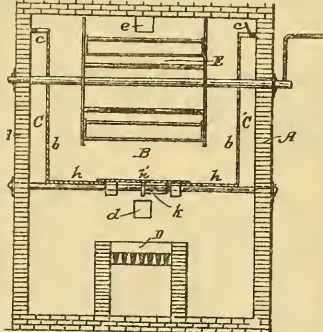


108,510. D. D. PARMELEE. COATING
THE INTERIOR OF PIPES, TUBES &c.
WITH SILVER OR OTHER METAL BY

THE ELECTRO DEPOSITING PROCESS

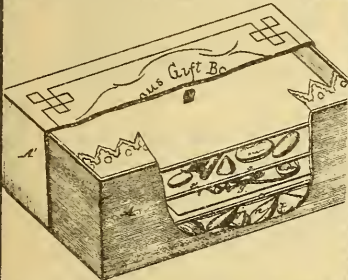


108,517. J. RAYNEY BAKERS OVEN.



108,504. E. MILLER. MEDICINE.

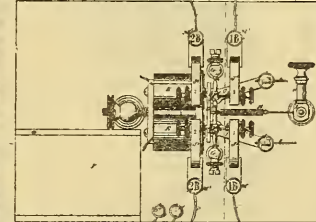
108,505. G. AND. C. B. MILLER
MANUFACTURE OF CONFECTIONERY



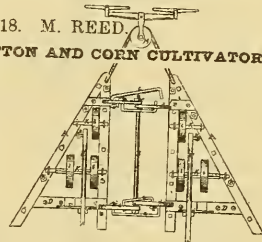
J. PIERPONT AND S. S. TUTTLE
108,512. FASTENING FOR SHOVELS FOR
CULTIVATORS AND FLOWS.



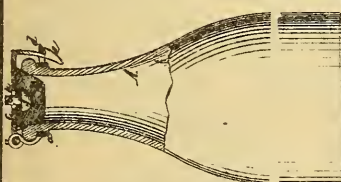
108,513. E. M. PIERSON
SWITCH FOR GALVANIC BATTERIES.



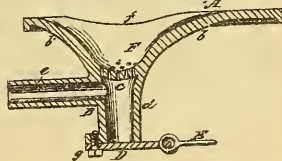
108,518. M. REED
COTTON AND CORN CULTIVATOR



108,506. W. MORGENSTERN
BOTTLE STOPPER

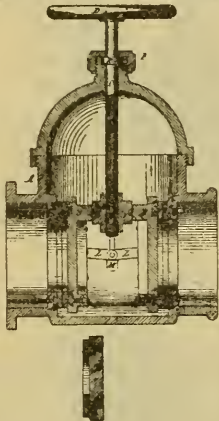


108,519. P. H. AND F. M. ROOTS.
CONSTRUCTION, JOINTLY, OF FIRE
BEDS AND TUYERES

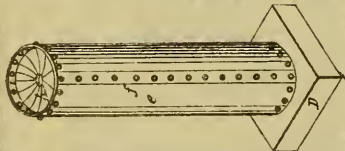


108,520. W. SACKERMANN
BROOCH FASTENING.108,521. C. SACRE, S. PERKINS, AND
W. SMELLIE.
MANUFACTURE OF WROUGHT IRON.

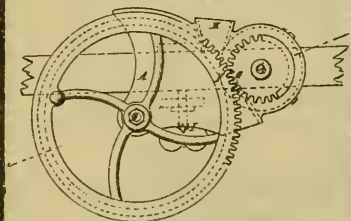
108,522. R. SAFELY STOP VALVE.

108,523. W. W. SANBORN
DYEING WOOLEN GOODS

108,524 W. B. SCAIFE KITCHEN BOILER

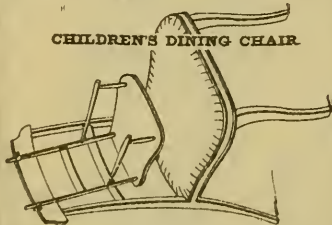
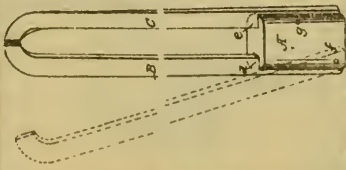


108,525 H. SEIB VEGETABLE CUTTER.



108,526. A. SMITH.

CHILDREN'S DINING CHAIR.

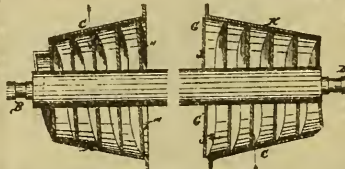
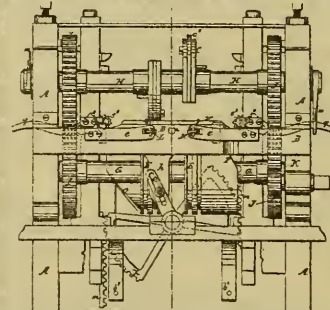
108,527. A. D. SMITH
LAMP CHIMNEY CLEANER.

108,528. C. E. SMITH.

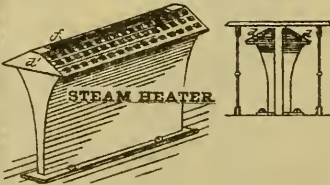
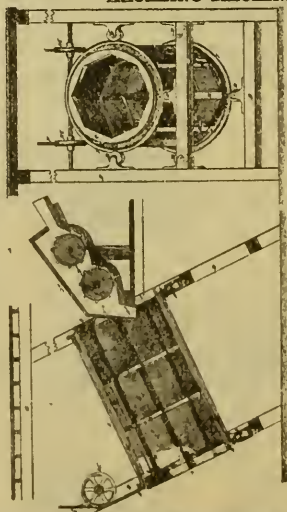
VAPOR BURNER.



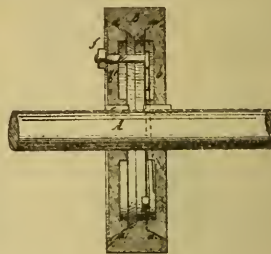
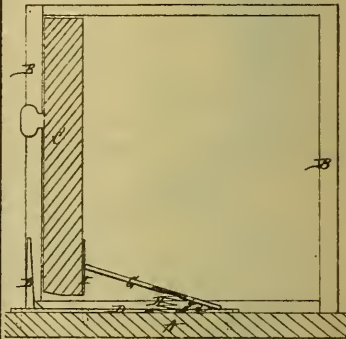
108,529 J. W. SNYDER WATER WHEEL.

108,530. J. H. SNYDER.
MACHINE FOR MAKING HORSESHOES

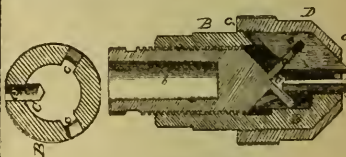
108,531. D. E. AND F. C. SOMES.

108,532 G. B. STACY.
SEPARATING ATTACHMENT FOR HUSBANDRY
HACKLING MACHINES.

108,533. J. STEGER FRICTION PULLEY.

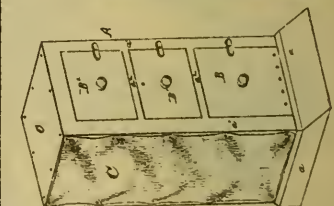
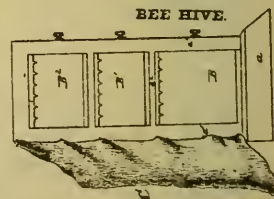
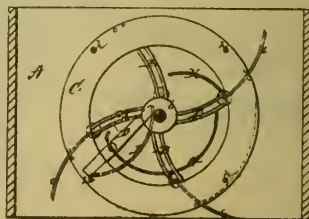
108,534. J. B. SWEETLAND.
DEVICE FOR HOLDING OPEN DOORS.

108,535. J. F. THOMAS. CHUCK

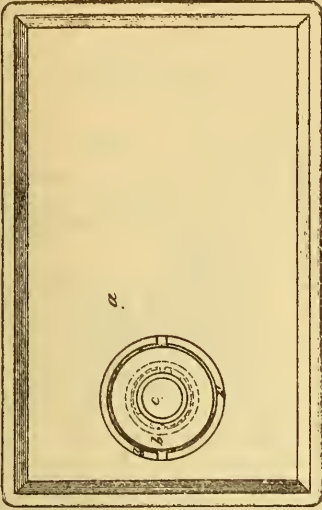


108,536. E. B. TURNIPSEED.

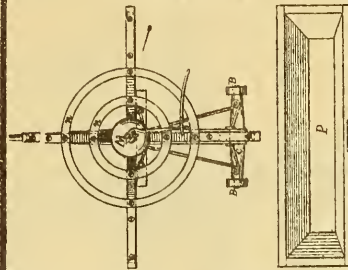
BEE HIVE.

108,537. N. VANDENBURGH
POTATO DIGGER.

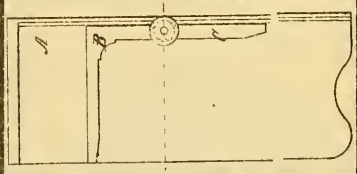
108,538. S. WALSH. SINK.



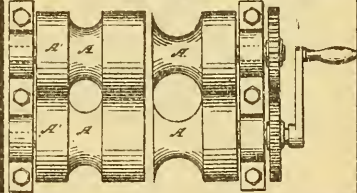
108,544. J. H. WILLIAMS. TIRE SETTING MACHINE.



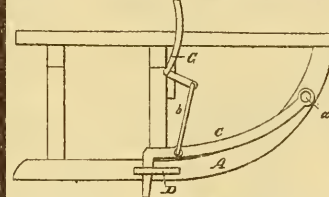
108,549. R. C. YOUNG. COMPOSING STICK.



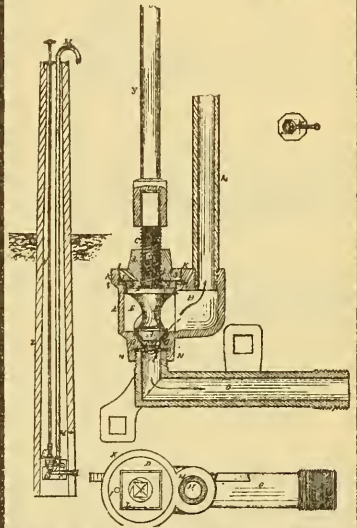
108,550.A. ZINSSER.TREATING SHELLAC.



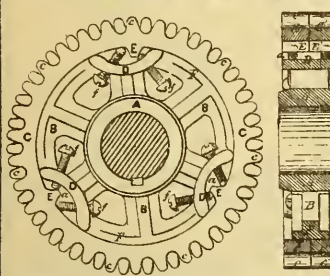
108,545. J. WILLIS. SLED BRAKE.



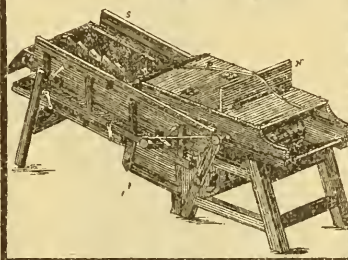
4,155. W. BAILEY. HYDRANT.



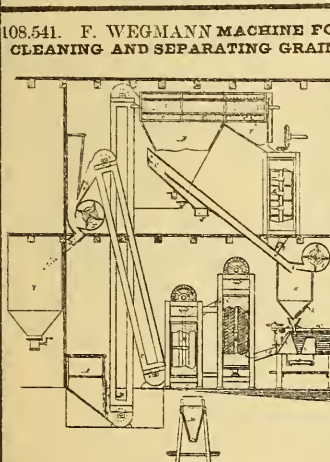
108,539. W. H. WARD. ADJUSTABLE GEAR WHEEL.



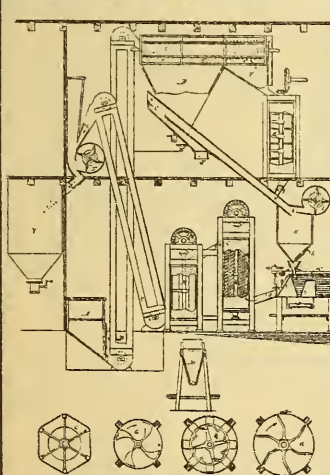
108,546. A. WISSLER. SEPARATOR OF THRASHING MACHINES.



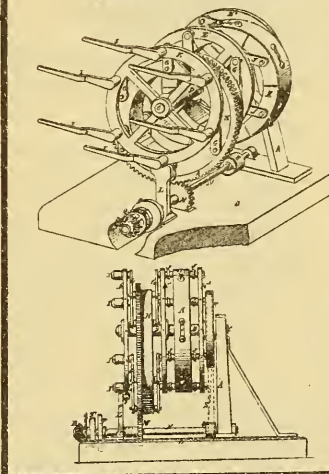
108,540. A. WARFIELD. MANUFACTURE OF SOAP.



108,541. F. WEGMANN MACHINE FOR CLEANING AND SEPARATING GRAIN.



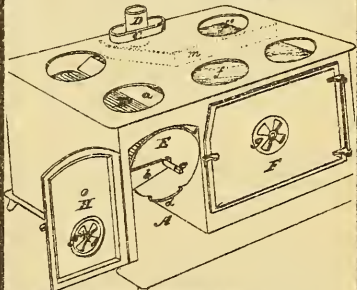
108,547. J. WOOLF. MECHANICAL MOVEMENT.



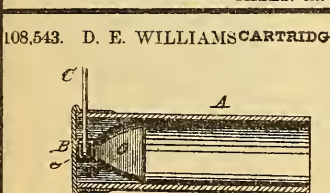
4,156. W. A. IVES. AUGER.



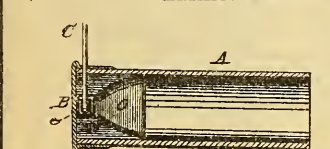
4,157. S. H. LA RUE COOKING STOVE.



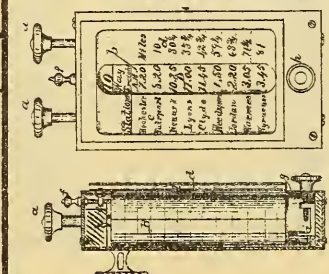
108,542. C. S. WELLS. MANUFACTURE OF BOXES, CARTRIDGE CASES, &c.



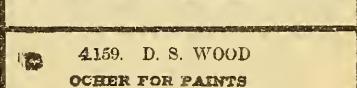
108,543. D. E. WILLIAMS. CARTRIDGE.



108,548. L. WRIGHT. TIME TABLE INDICATOR.



4,158. J. L. SAMUELS. PRESERVING AND HARDENING WOOD.



4,159. D. S. WOOD. OCHER FOR PAINTS.

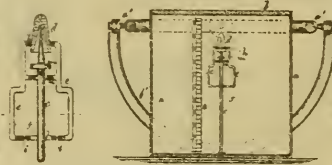
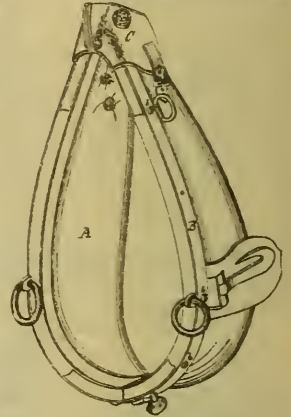
ILLUSTRATIONS OF PATENTS

ISSUED FROM

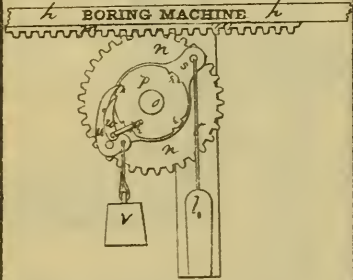
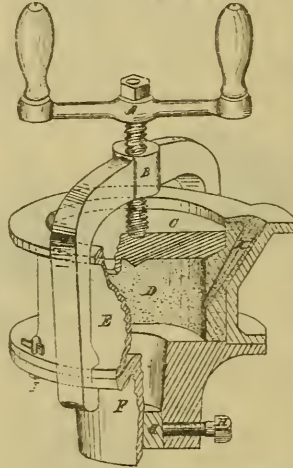
THE UNITED STATES PATENT OFFICE

OCTOBER 25, 1870.

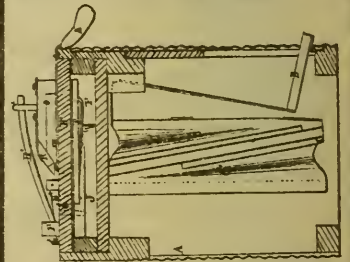
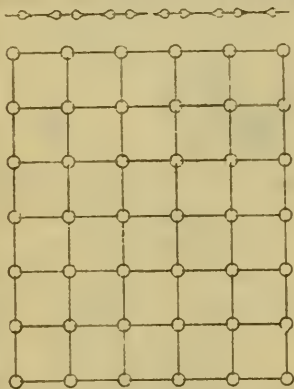
108,551. C. N. BALDWIN

108,555. J. BLOMGREN
COMPASS FOR MINING108,559. A. BRATNOBER.
HORSE COLLAR FASTENING.

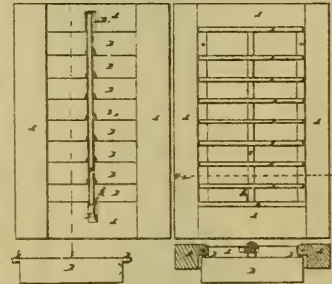
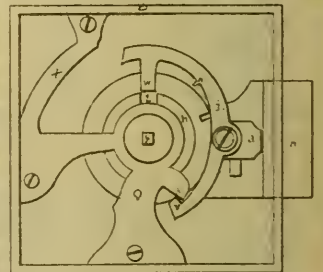
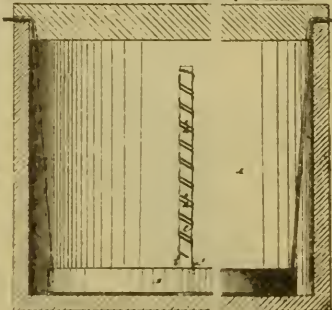
108,552. C. N. BALDWIN

108,556. H. BOLTHOFF.
FLASK FOR CASTING STAMP
SHOES FOR CRUSHING MILLS.

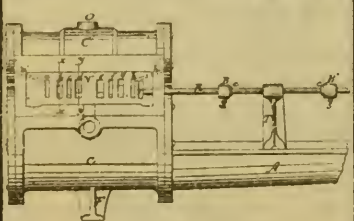
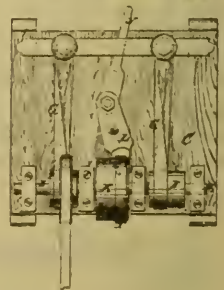
108,560. T. BRETT. MELODEON.

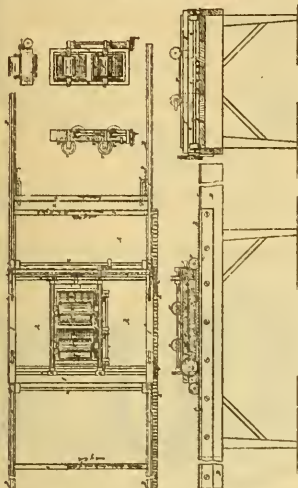
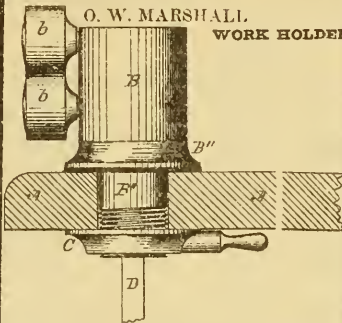
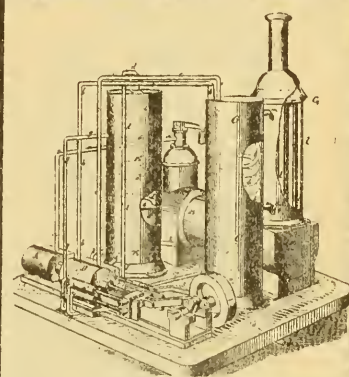
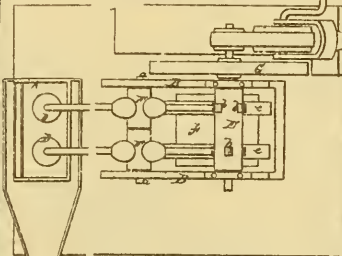
108,553. W. BECK.
METALLIC FISH NET. &c.

108,557. J. P. BOYD. WINDOW BLIND.

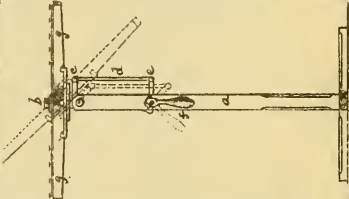
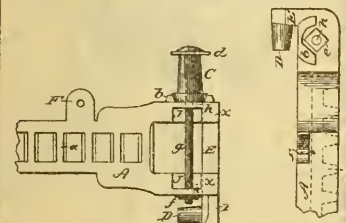
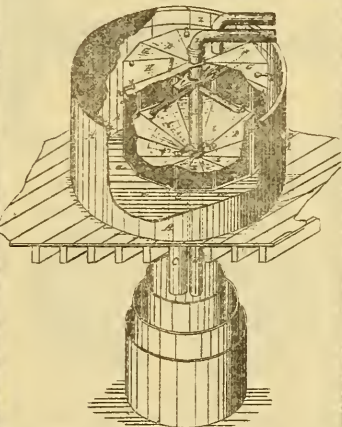
108,561. E. W. BRETTELL
PERMUTATION LOCK.108,558. L. BRADLEY. APPARATUS
FOR DEODORIZING AND IMPROVING
ALCOHOLIC AND VINOUS LIQUORS.

108,554. G. F. BLAKE. STEAM PUMP.

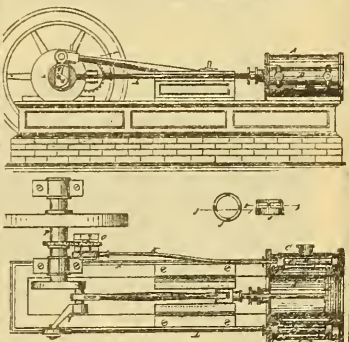
108,562. J. B. BROWN
HAT POUNCING MACHINE.

108,563. A. F. BUCHANAN.
OIL CLOTH PRINTING MACHINERY108,569 N. CLUTE AND
O. W. MARSHALL.
WORK HOLDER.108,574. J. A. H. ELLIS.
COMBINED STEAM AND GAS ENGINE.108,570. G. D. CROCKER.
STAMP BATTERY.

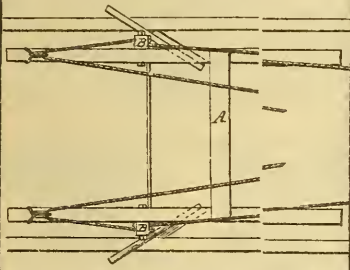
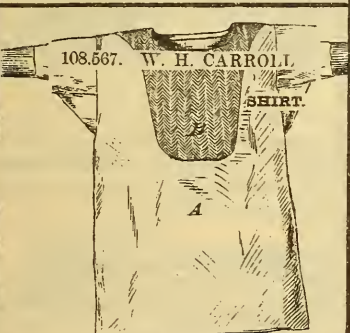
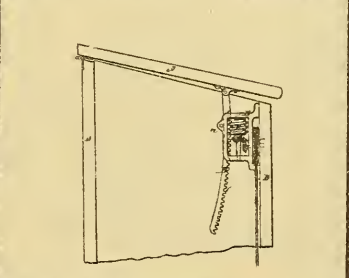
108,575. J. EMMERT. CLOTHES DRIER,

108,564. G. E. BURT. LINK FOR
ENDLESS CHAIN HORSE POWER108,571. C. W. DWELLE.
MANUFACTURE OF WHITE LEAD.

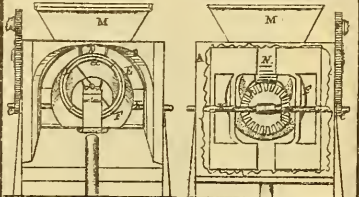
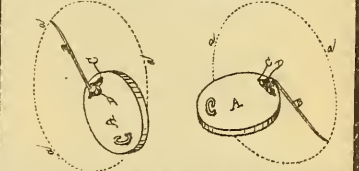
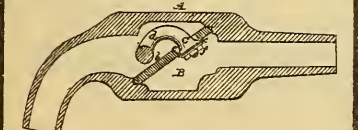
108,576. P. ESTES. STEAM ENGINE.



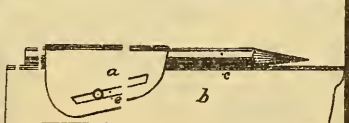
108,565. A. M. BUTTS. SNOW PLOW.

108,566. A. C. CAMPBELL.
ASPHALT PAVEMENT.108,572. W. DYATT.
DEVICE FOR OPERATING SKYLIGHTS.

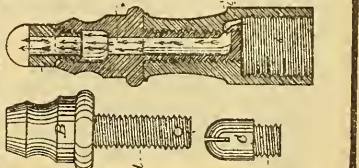
108,577 J. G. EVANS GRAIN SEPARATOR

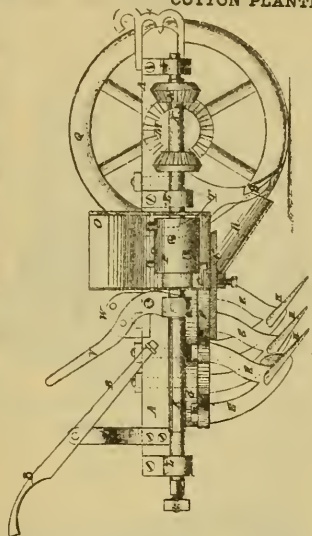
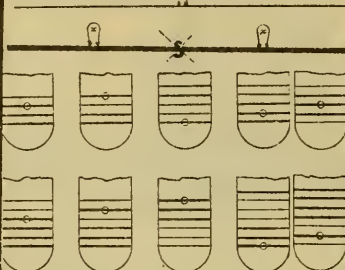
108,578. I. FARJEON AND
W. H. HORTON JEWELRY PIN.108,568. W. F. CLASS AND L. W. SAPP
FAUCET.

108,573. C. A. EATON PENCIL HOLDER.

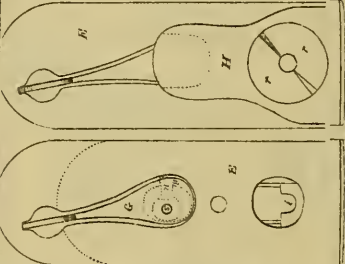


108,579. C. S. FORD. GAS BURNER.

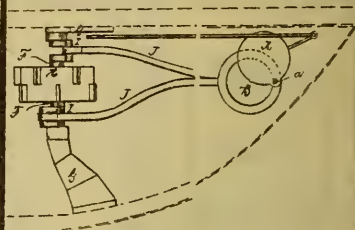


108,580. A. G. W. FOSTER
COTTON PLANTER.108,585 J. W. GIRDLESTONE
PREVENTING THE DEVIATION
OF SHIPS COMPASSES.

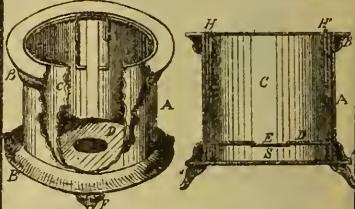
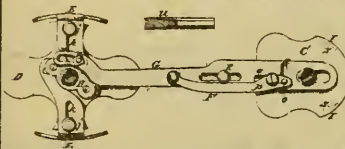
108,586. W. B. GLOVER. PLANE.



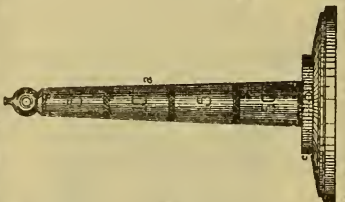
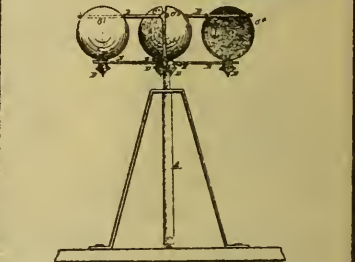
108,591 T. HERBERT POTATO PLANTER.



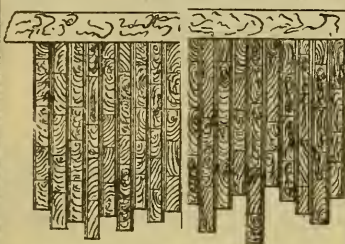
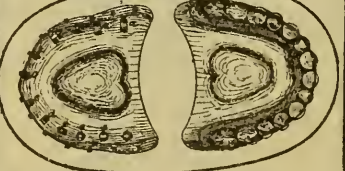
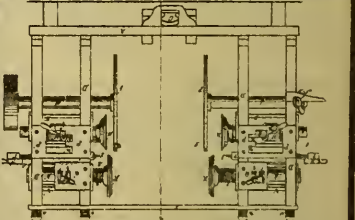
108,592. J. M. HESS. FLOWER BASKET.

108,581. B. GALLAGHER
SKATE FASTENING.

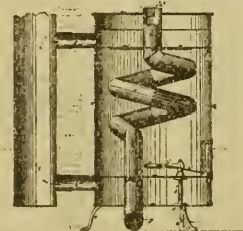
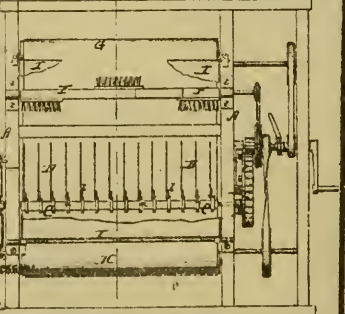
108,587. D. F. HALE. GAME.

108,593. J. O. HEYWORTH AND
H. E. FESSEL. WIND WHEEL.

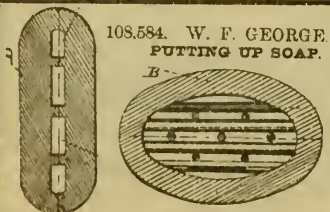
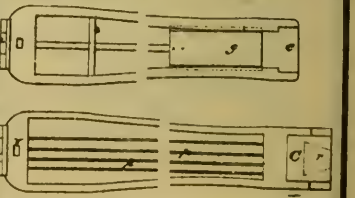
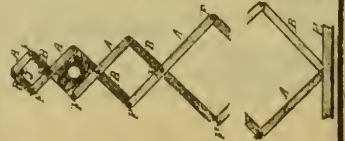
108,582. C. GAYTES WOOD PAVEMENT.

108,588. H. B. HALE.
FASTENING ARTIFICIAL TEETH TO
METALLIC PLATES.108,594. W. HILL. MACHINE FOR
SECURING HEADS TO METALLIC KEGS.

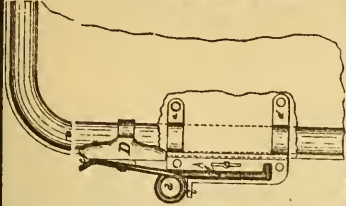
108,583. R. GEORGE. GAS HEATER.

108,589. W. H. HANKINSON
CARPET BEATER.

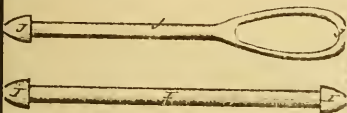
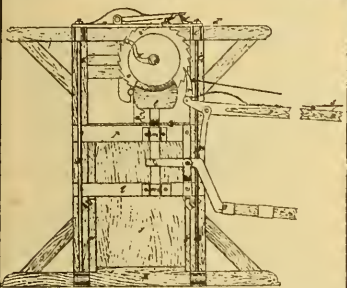
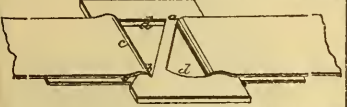
108,595. I. L. HOARD. THREAD SPOOL.

108,596. D. R. HUNDLEY.
POCKET CUTLERY.108,584. W. F. GEORGE.
PUTTING UP SOAP.108,590. N. HAYDEN
EXTENSION HAT RACK.

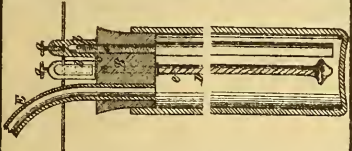
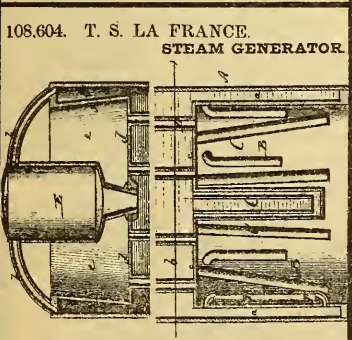
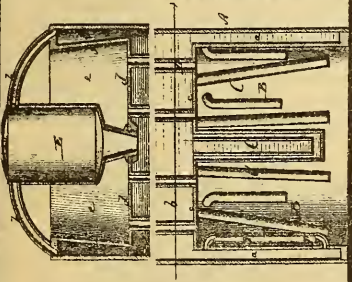
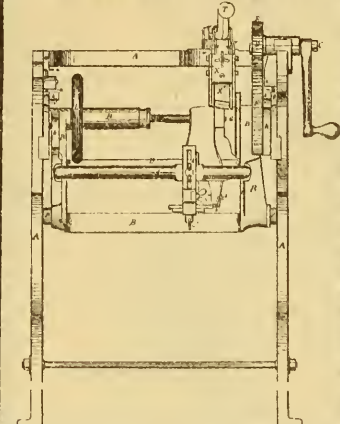
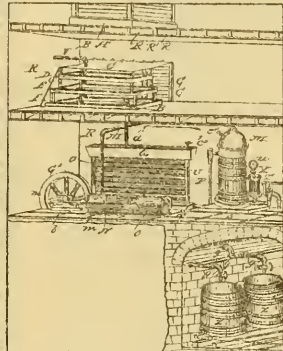
108,597. D. HURD. REIN HOLDER.



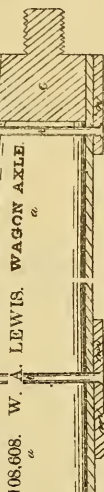
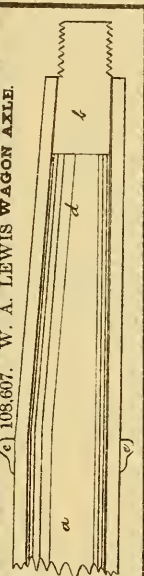
108,598. G. W. IRISH. CAR COUPLING.

108,599. J. H. JOHNSON
HAY AND COTTON PRESS108,600. E. P. JONES
COTTON BALE TIE.108,601. S. KEENE. KNIFE HOLDER AND
GUIDER FOR HEEL CUTTING MACHINES.

108,602. J. KIDDER. GALVANIC BATTERY.

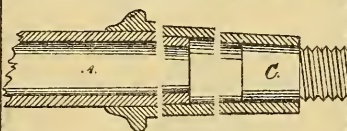
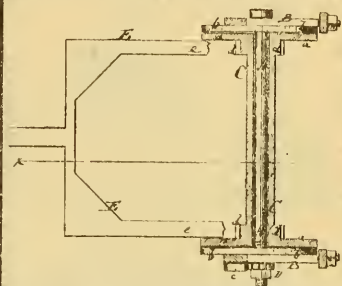
108,603. J. H. KIPP.
MEDICAL COMPOUND FOR FOWLS.108,604. T. S. LA FRANCE.
STEAM GENERATOR.108,605. R. C. LAMBERT. MACHINE FOR
CUTTING HEELS OF BOOTS AND SHOES.108,606. O. P. LEWIS.
METHOD OF COOLING BEER WORTS, &c.

108,607. W. A. LEWIS. WAGON AXLE.

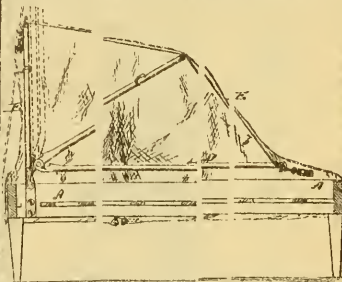
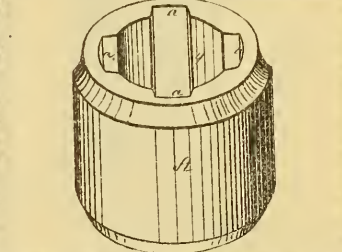


108,608. W. A. LEWIS. WAGON AXLE.

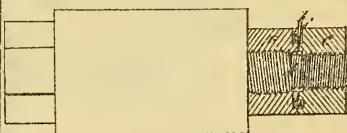
108,609. W. A. LEWIS. WAGON AXLE.

108,610. A. J. MAPES. TONGUE
BRACE AND BALANCE FOR WAGONS.

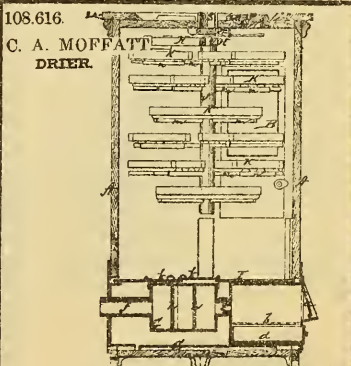
108,611. T. MASAC. MOSQUITO BAR.

108,612. J. A. MAYNARD.
HUB FOR CARRIAGES.

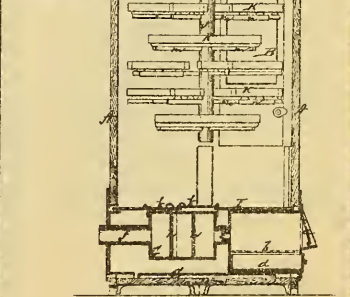
108,613. H. W. McAULEY. NUT LOCK.



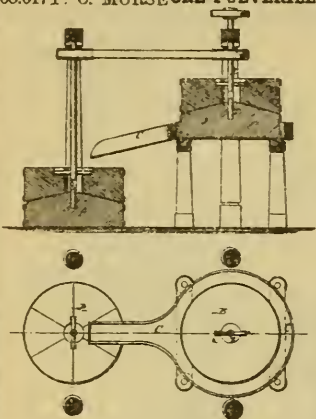
108,614. W. B. McCLURE. CART SADDLE.

108,615. C. McILVAINE.
COPYING INK FOR PRINTING.

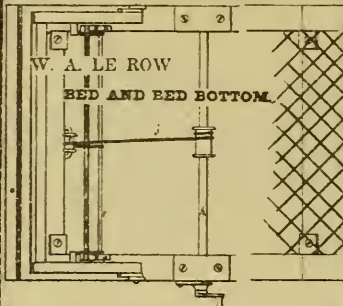
108,616.

C. A. MOFFATT.
DRIER.

108,617 F. C. MORSEORE PULVERIZER

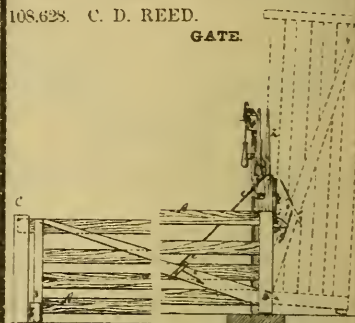


108,622. J. W. C. PETERS AND

108,627. E. L. RANSOME.
REMOVING SOLUBLE SALTS FROM
ARTIFICIAL STONE

108,628. C. D. REED.

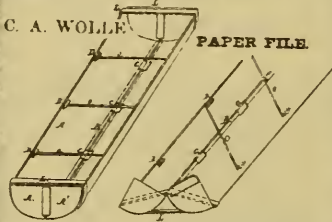
GATE.



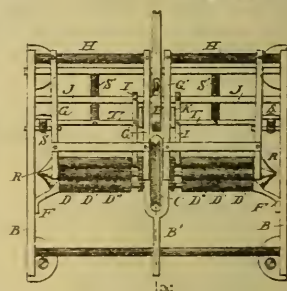
108,623. S. E. PETTEE AND

C. A. WOLLE.

PAPER FILE.

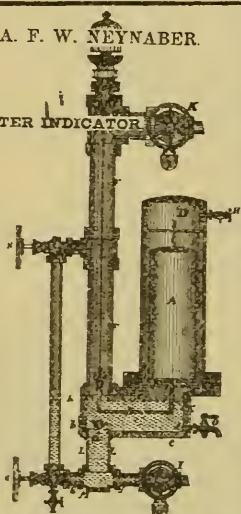


108,629. J. O. REILLEY CIGAR MACHINE



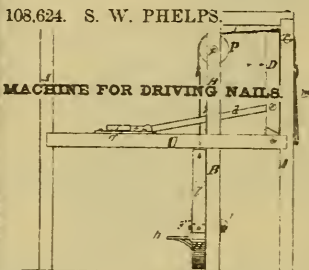
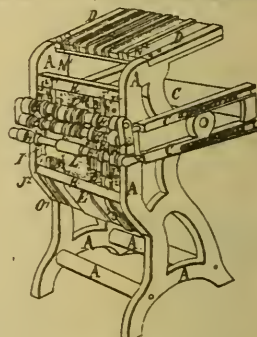
108,618. A. F. W. NEYNABER.

LOW WATER INDICATOR



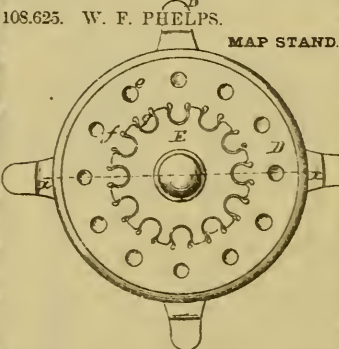
108,624. S. W. PHELPS.

MACHINE FOR DRIVING NAILS.

108,630. I. L. G. RICE. INKING
APPARATUS FOR COLOR PRINTING108,619. G. C. NOYES.
CANCELING STAMP.

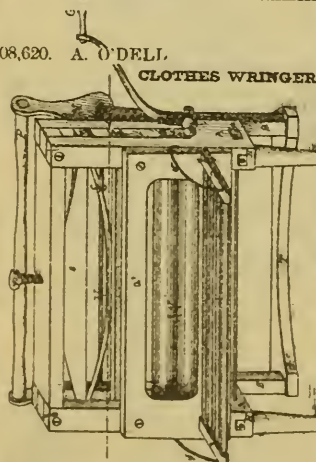
108,625. W. F. PHELPS.

MAP STAND.

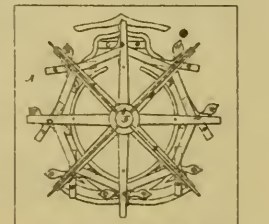
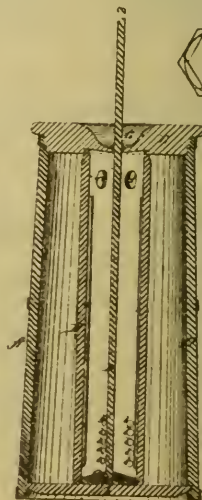
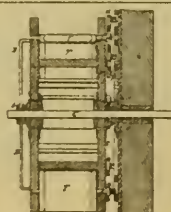
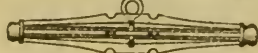


108,620. A. O'DELL.

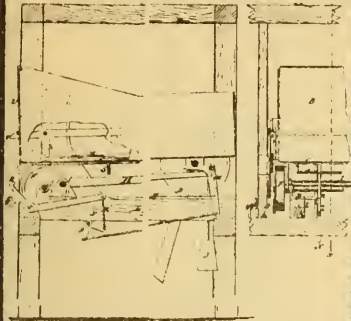
CLOTHES WRINGER.



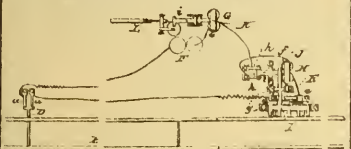
108,626. J. W. POST. PADDLE WHEEL

108,631. J. C. RICHARDSON AND
L. TAYLOR. CHURN.108,621. D. A. PELOUBET.
CHAIN LINK AND BAR.

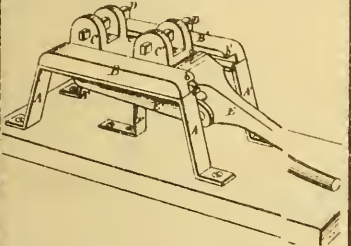
108,632. W. RILEY, JR. DUMPING CAR.



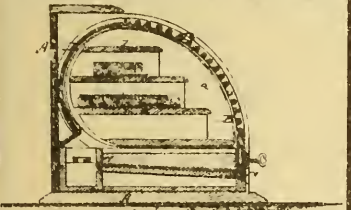
108,633. W. ROBINSON ELECTRO MAGNETIC RAILROAD SIGNAL.



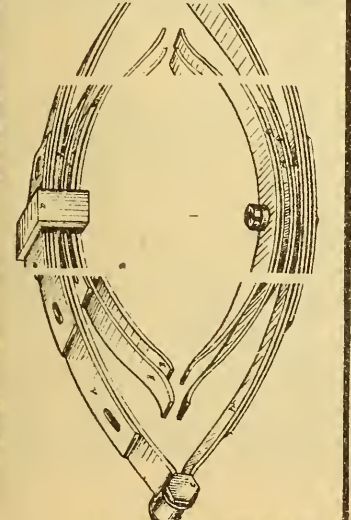
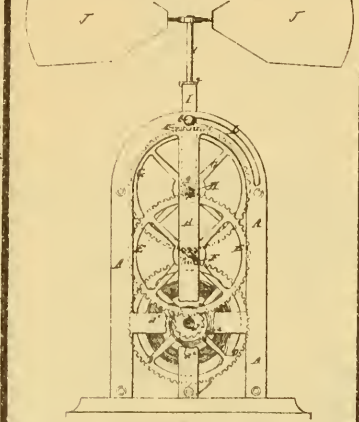
108,634. S. ROE, JR. TIRE MACHINE.



108,635. E. SCHEEL. WRITING DESK.



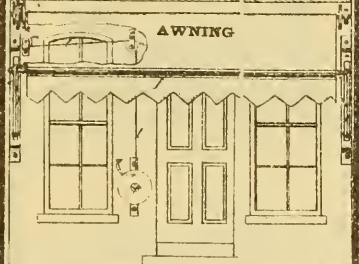
108,636. J. M. SCHMIDT SPRING.

108,637. J. SCHNELL AND P. SCHMITT
AUTOMATIC FAN.

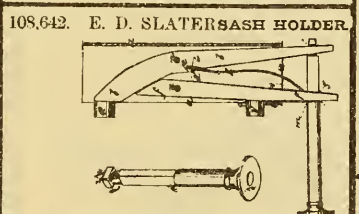
108,638. F. B. SCOTT. REIN HOLDER.



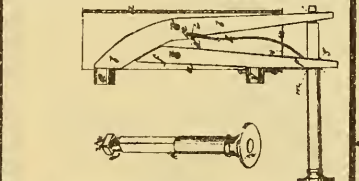
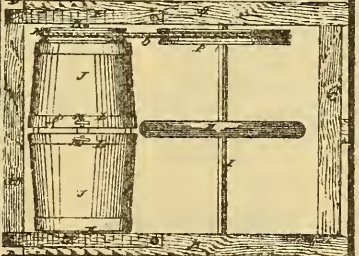
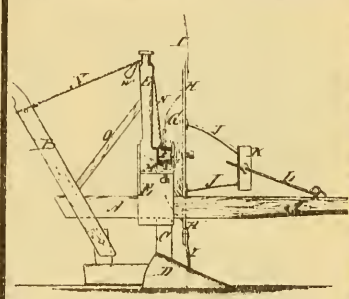
108,639. L. G. SERT AND C. L. SCHURM.



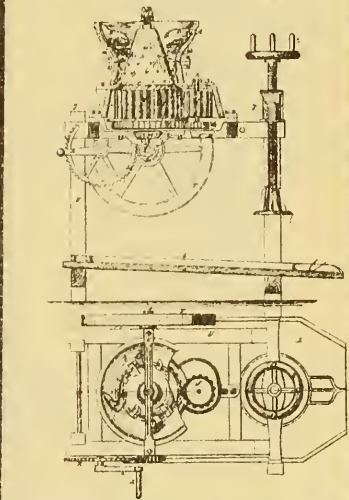
108,640. W. A. SHARPE.

108,641. W. H. SINGER. PLATE
AND BAR FOR CONSTRUCTION OF
PLOW, CULTIVATOR TEETH &c.

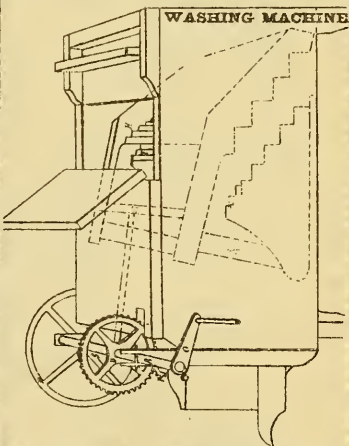
108,642. E. D. SLATERSASH HOLDER.

108,643. A. C. SMITH
COTTON SEED PLANTER.108,644. A. C. SMITH.
LAND MARKER FOR CORN PLANTING

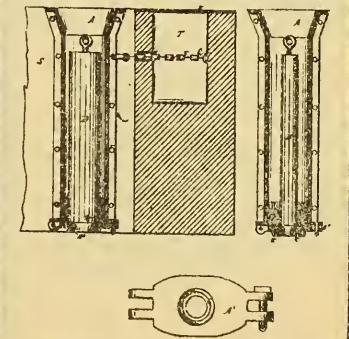
108,645. J. K. P. SMITH. CIDER MILL.



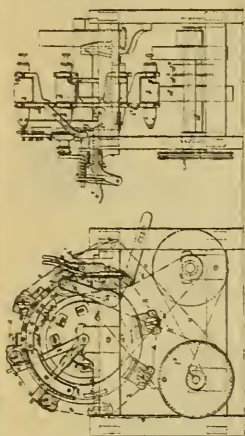
108,646. S. M. SMITH



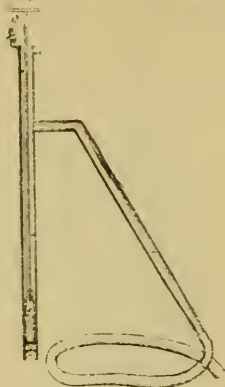
108,647. W. SMITH. MOLDING PIPE.



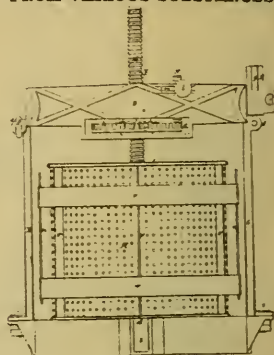
108,648J. P. STARRETT
MACHINE FOR SHAVING THE HEADS
OF SCREW BLANKS



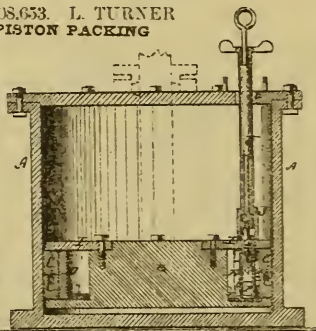
108,652. T. J. TRAPP. PUMP SIPHON.



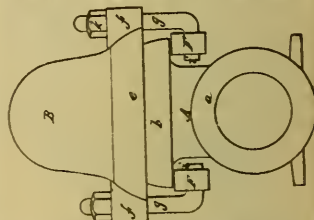
108,657. J. WATERS PRESS
FOR REMOVING LIQUID MATTER
FROM VARIOUS SUBSTANCES



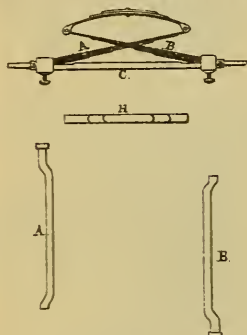
108,653. L. TURNER
PISTON PACKING



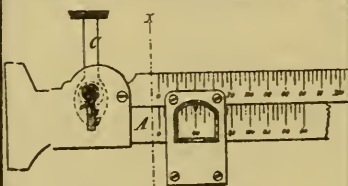
108,658. T. WATSON
HYDRAULIC MINING APPARATUS.



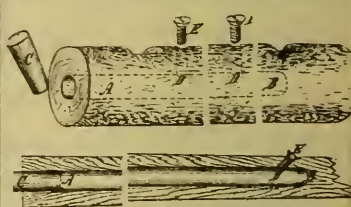
108,649S. STEWARD CARRIAGE SPRING



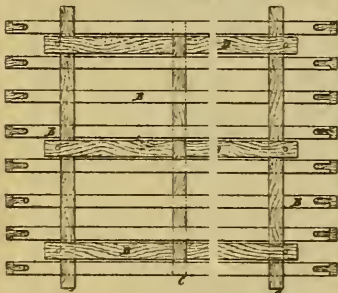
108,654. J. H. USHER. SCALE BEAM.



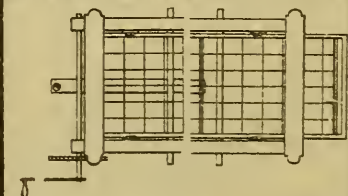
108,659. E. WEBB PRESERVING WOOD



108,650. P. STOVALL.
SPRING BED BOTTOM.



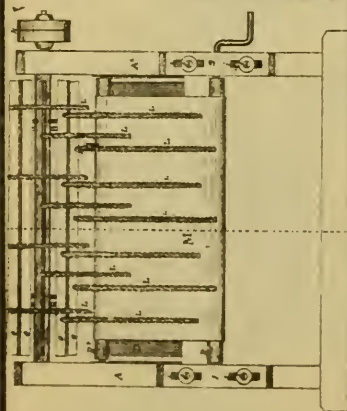
108,655B. D. AND D. A. VANDERVEER
AND T. DENISE.
MACHINE FOR ASSORTING POTATOES.



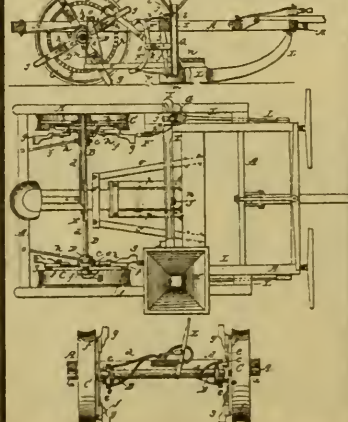
108,660. W. M. WELLING
DIE FOR MOLDING BUTTONS.



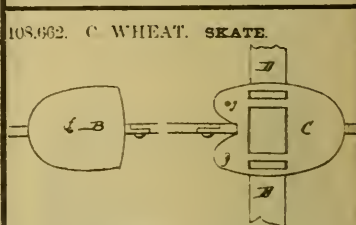
108,651. R. TERRY AND
F. W. HAFKEMEYER
CARPET CLEANER.



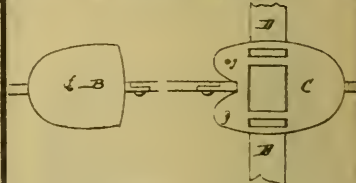
108,656G. B. VAUGHAN
CORN PLANTER



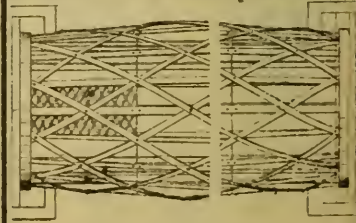
108,661. H. M. WESTMANCEMENT FOR
COATING AND PROTECTING WOOD.

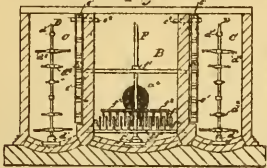


108,662. C. WHEAT. SKATE.

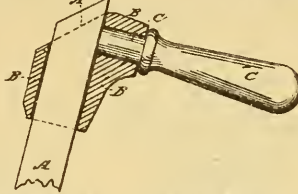
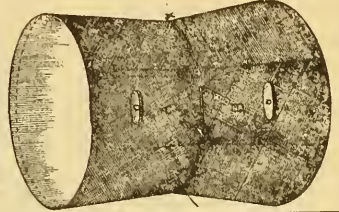


108,663G. H. WHITE TUBULAR BRIDGE

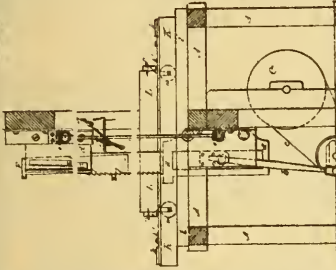
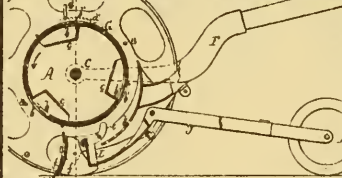
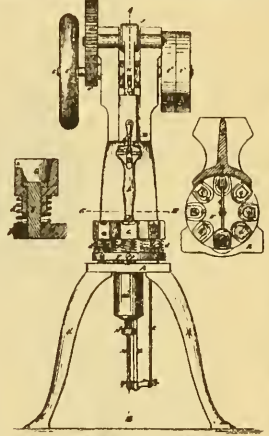
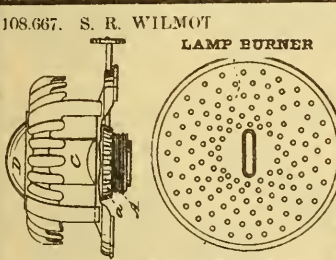
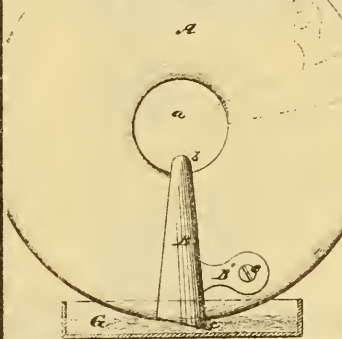
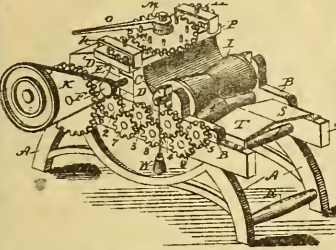
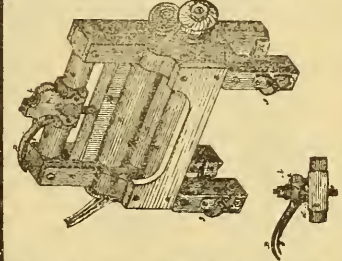
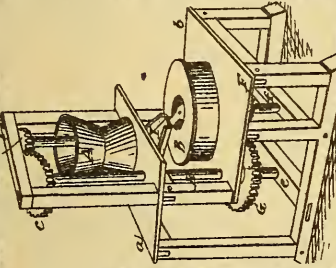
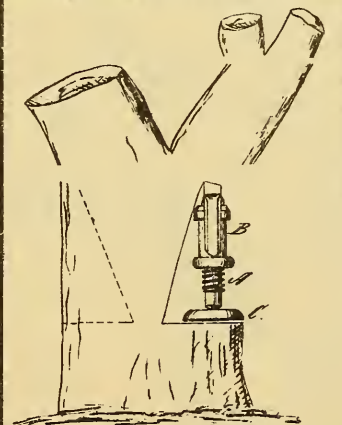
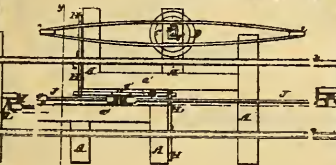


108.664. G. W. WIGNER.
UTILIZING SEWAGE.

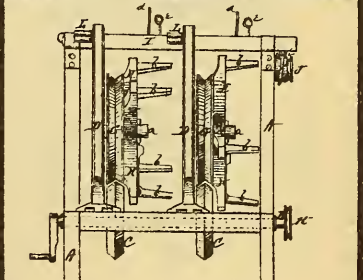
108.671. W. E. WYCHE FLOW HANDLE

108.676. S. A. BEMIS, A. E. FOTH
AND J. W. GOODRICH PAPER CUFF.

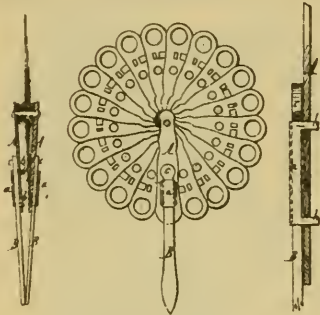
108.665. W. M. WILKIN SAW MILL

108.672. S. L. ALLEN PLANTING
AND FERTILIZING MACHINE108.677. H. H. BIGELOW MACHINE
FOR HEELING BOOTS AND SHOES108.666. J. T. WILKINSON
ROOFING CEMENT.108.673. W. ARMSTRONG
LUBRICATING DEVICE FOR BOLT
THREADING MACHINES.108.668. M. WINGER
BARK SHAVING MACHINE.108.674. E. G. W. BARTLETT.
WRINGING MACHINE.108.669. M. WINGER
MANUFACTURE OF QUERCITRON BARK108.675. H. J. BEARD.
MACHINE FOR FELLING TREES108.679. P. BOYDEN
DETACHABLY TIPPED WHIP.108.670. E. WOODBURY.
RAILWAY GATE.

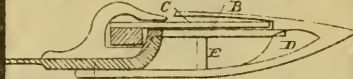
108.680. J. BRIGGS REELING MACHINE



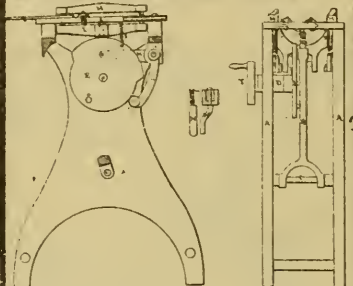
108,681 O. BRUECK. FAN.



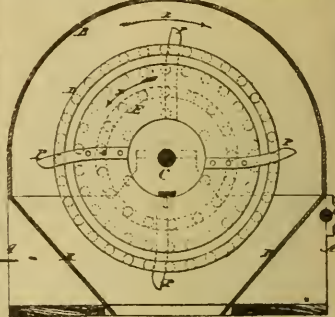
108,686 T. J. AND G. M. CLARK CUTTING APPARATUS FOR HARVESTERS



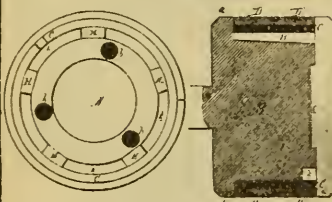
108,687 J. P. CROOKS MACHINE FOR SEIVING LEATHER



108,692 H. DUCSH ROTARY DISINTEGRATOR

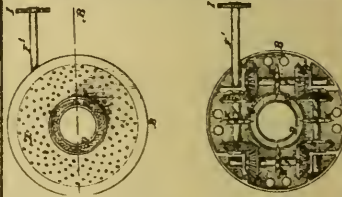


108,682 I. D. BUCK. PISTON.

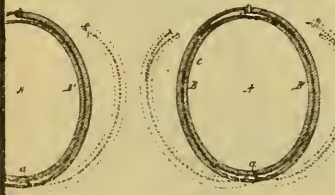


108,693 G. H. S. DUFFUS CONCRETE FOR PAVEMENT &c.

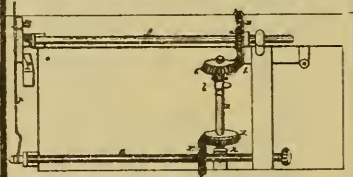
108,694 J. W. EMERSON HOLLOW WICK LAMP BURNER



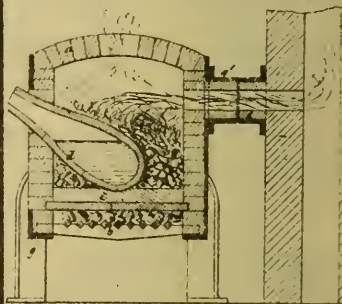
108,683 H. CARLISLE, JR BRACELET.



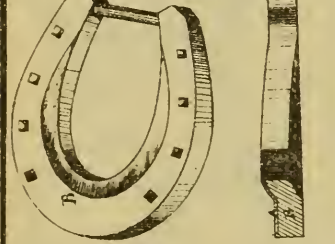
108,688 J. CUMNOCK SELF ACTING MULE FOR SPINNING.



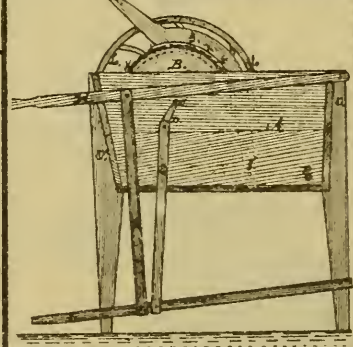
108,695 A. F. DU FAUR RETORT FURNACE.



108,684 J. K. CHRISTOPHER HORSESHOE

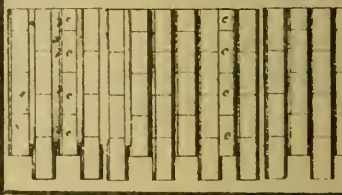


108,689 E. DAVIS WASHING MACHINE

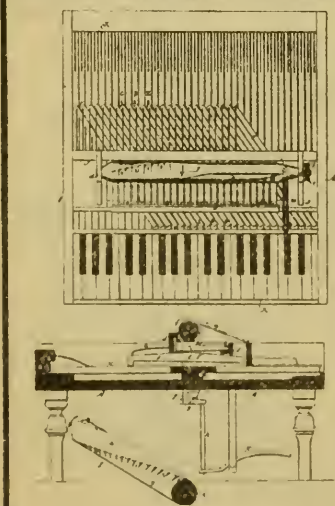


108,696 L. S. FILBERT PAVEMENT.

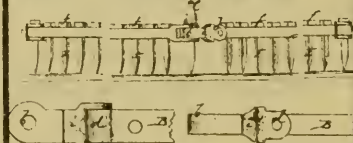
108,697 L. T. FOLLANSBEE WOOD PAVEMENT.



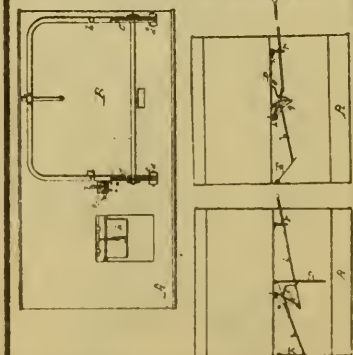
108,685 J. CLARK. COUPLING ATTACHMENT FOR PIANOS



108,690 J. DAWSON HARROW.



108,691 R. E. DEANE COOKING RANGE.



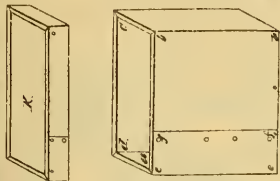
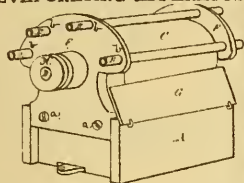
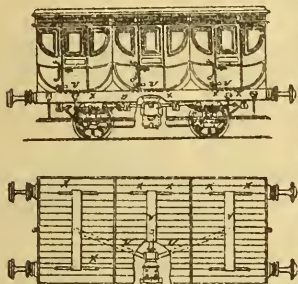
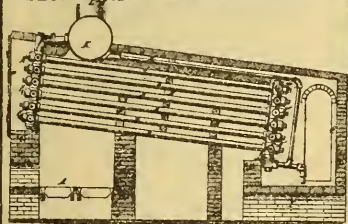
108,698 P. G. GARDINER RAILWAY CAR COUPLER AND BUFFER



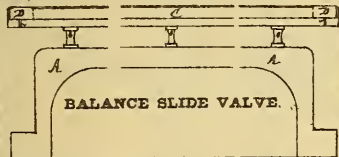
108,699 M. L. GIBBS. PLOW.



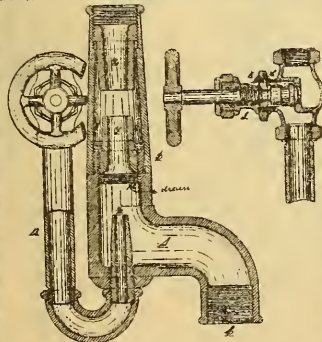
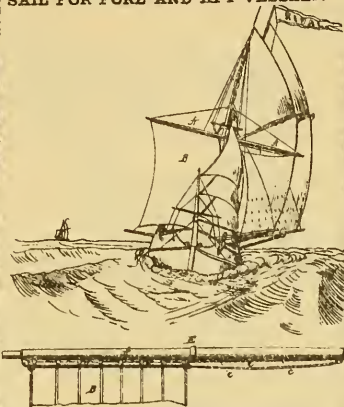
108,700. W. GILBERT WOODEN BOX

108,701. S. D. GILSON.
EVAPORATING APPARATUS.108,702. P. GRANDJEAN
RAILROAD CAR HEATER108,703. J. GRIFFETH AND
G. W. WUNDRAM
SECTIONAL STEAM GENERATOR.

108,704. T. J. HAMER AND M. WALLS

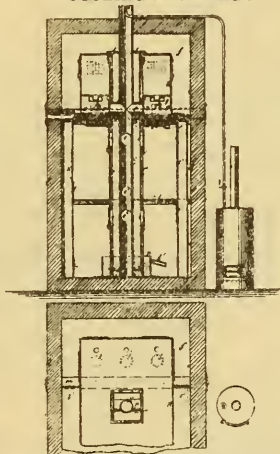


108,705. G. HIBBARD PUMP.

108,706. A. A. HOLLING SQUARE
SAIL FOR FORE AND AFT VESSELS.

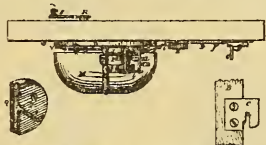
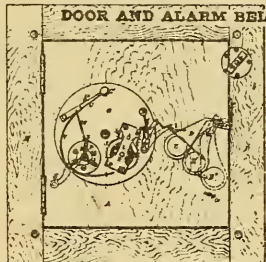
108,707. T. KRAUSCH

COOLING BUILDINGS

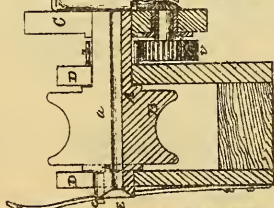


108,708. G. O. LACKEY.

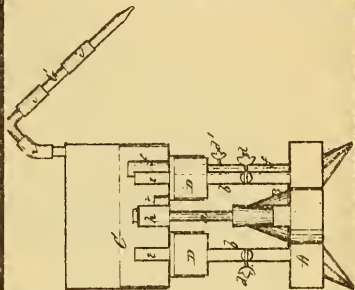
DOOR AND ALARM BELL.

108,709. S. W. LAWRENCE, P. WALDEN
AND J. W. HUNTOON
DRAWING AND TWISTING HEAD FOR

SPINNING MACHINES.

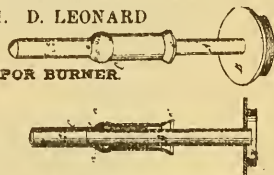
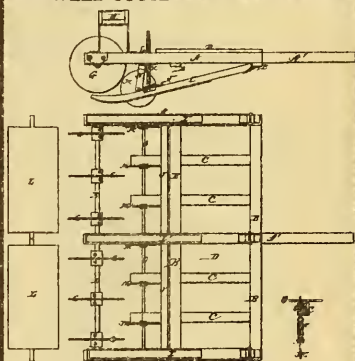
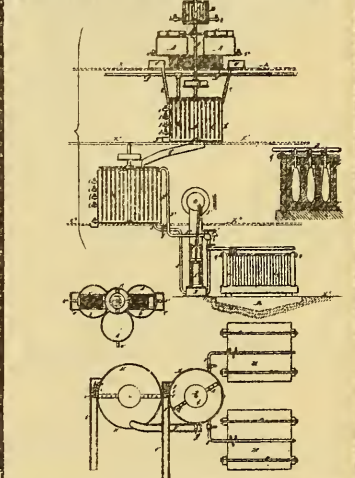
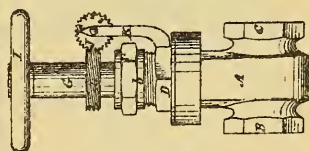


108,710. I. P. LEETESTEAM ATOMIZER



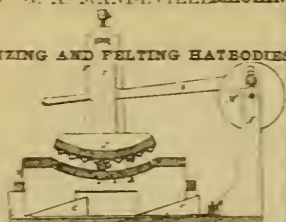
108,711. D. LEONARD

VAPOR BURNER.

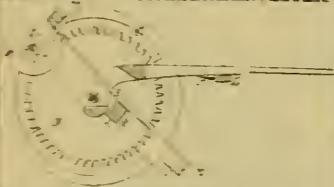
108,712. W. LESLIE COMBINED STALK
AND WEED CUTTER AND LAND ROLLER108,713. J. LUCAS, APPARATUS FOR
PREPARING LAKES AND COLORS.108,714. H. G. LUDLOW
AND J. STONE STOP VALVE.

108.715 G. A. MANDEVILLE MACHINE

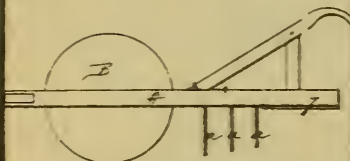
FOR SIZING AND FELTING HATBOARDS



108.716 W. T. MILLER HARVESTER

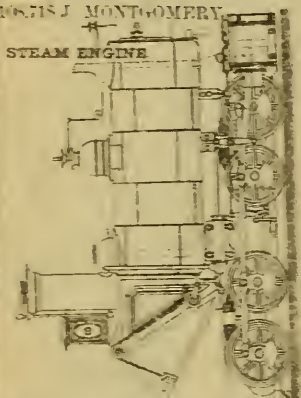
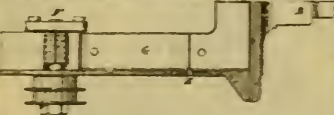


108.717 I. N. MONROE CORN COVERER

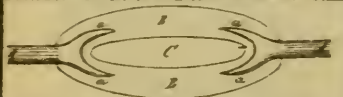


108.718 J. MONTGOMERY

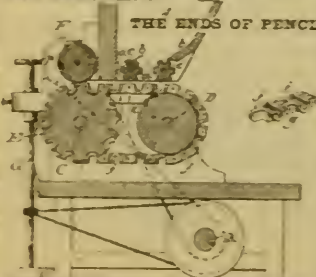
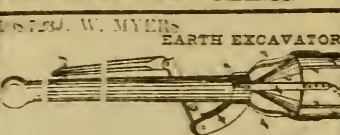
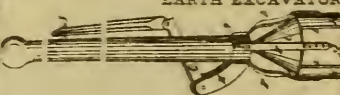
STEAM ENGINE

108.719 A. W. MOORE
PEG BOX FOR PEGGING MACHINES

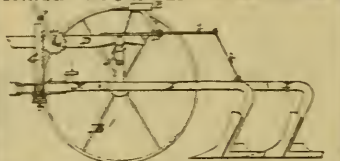
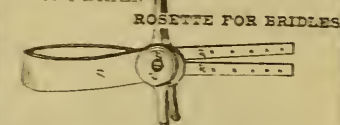
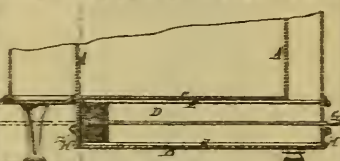
108.720 F. B. MORSE CARRIAGE CLIP

108.721 T. H. MULLER AND
H. C. BENSON MACHINE FOR CUTTING
AND SMOOTHING

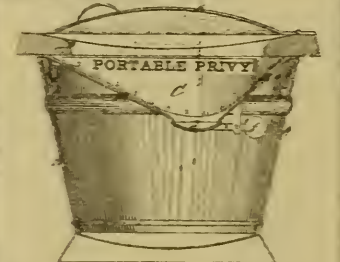
THE ENDS OF PENCILS

108.722 E. D. MURPHY MATERIAL
FOR JOURNALS AND BEARINGS108.723 W. MYERS
EARTH EXCAVATOR

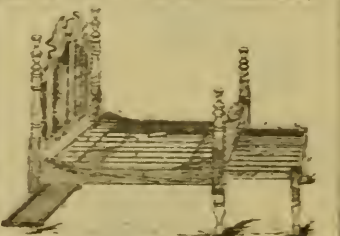
108.724 W. NEWLIN GANG PLOW.

108.725 J. O'BRIEN
ROSETTE FOR BRIDLES108.726 H. L. PALMER
FLUE CLEANER FOR COOKING STOVES108.727 W. M. PERKINS AND
T. F. VANDERGIFT
DRAFT EQUALIZER

108.728 W. H. PULVER



108.729 H. B. RAMSEY, BEDSTEAD

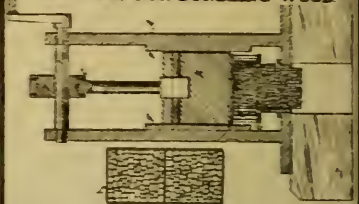
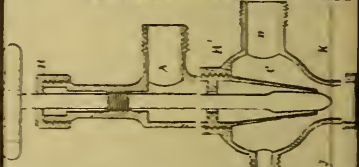
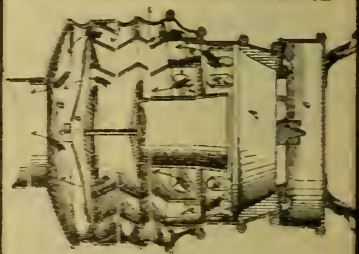


108.730 G. W. PRAM FLOW



108.731 J. RUSHWORTH

MACHINE FOR BUNDLING WOOD

108.732 F. SCHLEIFER
REFINING SUGAR BY STEAM108.733 S. B. SEXTON AND
G. W. BEARD, HOT AIR FURNACE

108.734 W. F. SCRANTON

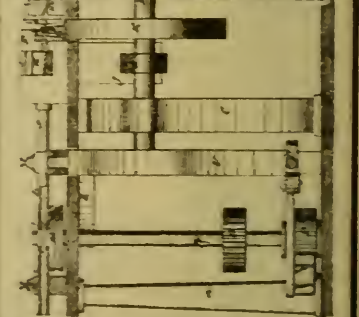


CURTAIN FIXTURE

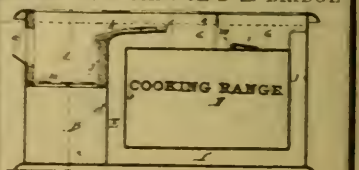


108.735 J. C. STEAD

MACHINE FOR MAKING STAPLES



108.736 D. STUART AND L. BRIDGE

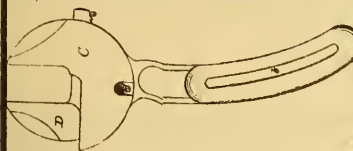


COOKING RANGE

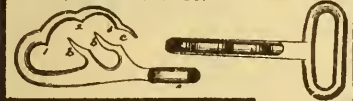
108,737. H. G. SUPLEE. NEEDLE.



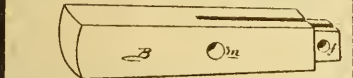
108,738. G. C. TAFT. WRENCH.



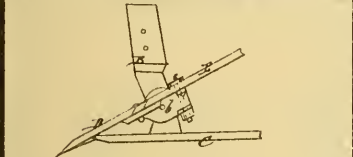
108,739. W. H. TAYLOR. HARNESS HOOK.



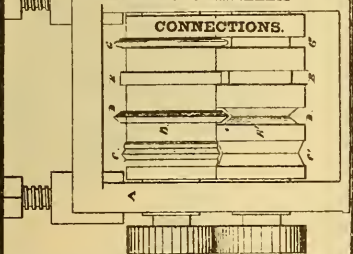
108,740. J. A. WHITE. HANDLE OF TABLE KNIFE.



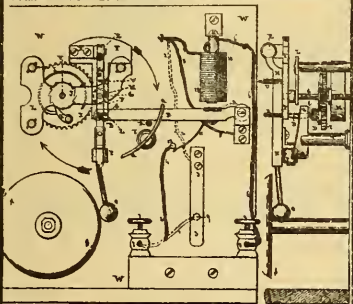
108,741. J. T. WHITLOCK. HORSE ROE.



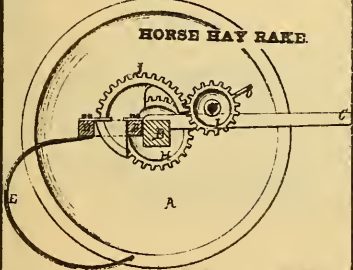
108,742. E. WIGHT. MACHINE FOR MAKING UMBRELLA CONNECTIONS.



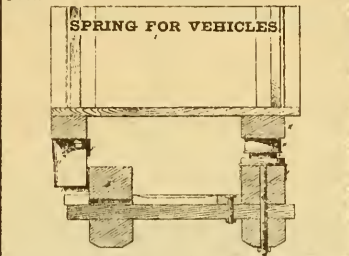
108,743. C. WILLIAMS, JR. ELECTRO MAGNETO ALARM GONG.



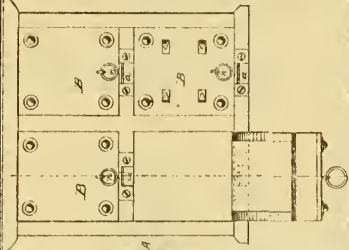
108,744. J. E. WISNER.



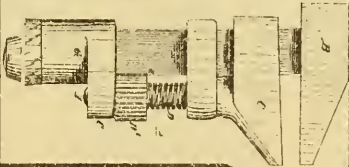
108,745. H. E. WOLCOTT.



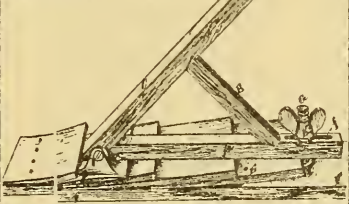
108,746. W. L. WOODS. PAPER FILE.



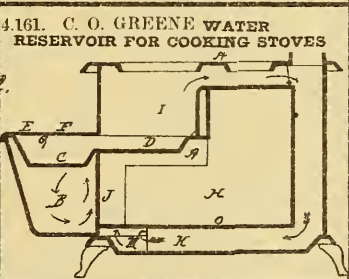
108,747. E. J. WORCESTER. WRENCH.



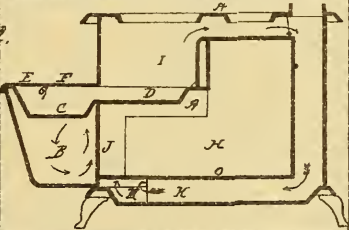
108,748. E. J. WORCESTER. SHINGLING BRACKET.



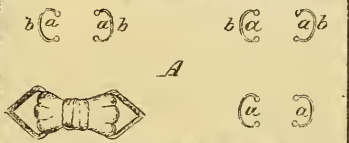
4,160. L. FITZMAIER. METHOD OF ORNAMMENTING TIN, &c.



4,161. C. O. GREENE. WATER RESERVOIR FOR COOKING STOVES.



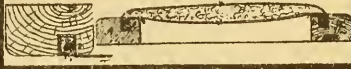
4,162. W. H. HART, JR. HOLDER FOR NECKTIES.



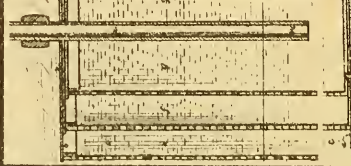
4,163. W. H. HART, JR. BOX FOR PACKING NECKTIES.



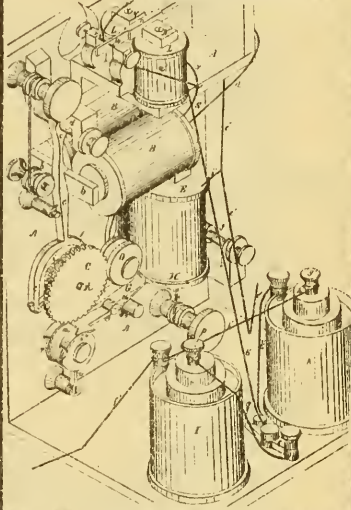
4,164. O. A. BINGHAM. CHAIR SEAT.



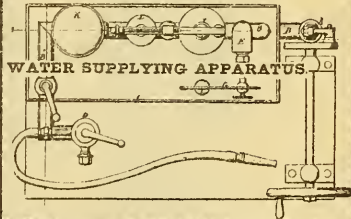
4,165. R. H. DEWEY AND E. N. TILLOTSON. RESERVOIR FOR WELLS.



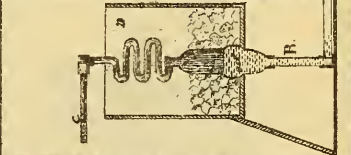
4,166. T. A. EDISON. PRINTING TELEGRAPH.



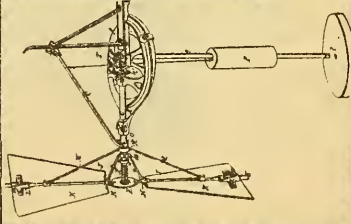
4,167. J. C. HAGEN.



4,168. J. KIDD. MANUFACTURE OF GAS FROM HYDROCARBONS.



4,169. THE CONTINENTAL WINDMILL COMPANY. SELF REGULATING WINDMILL.



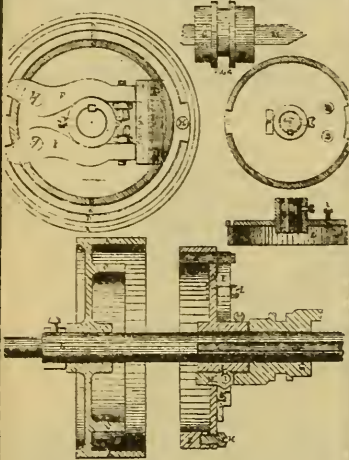
ILLUSTRATIONS OF PATENTS

ISSUED FROM

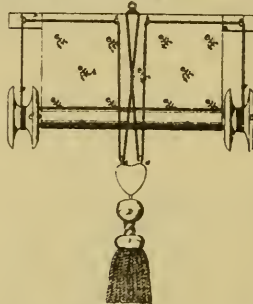
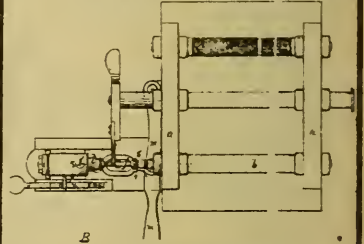
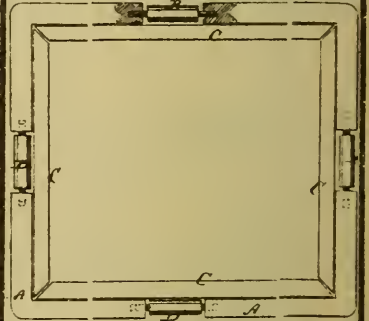
THE UNITED STATES PATENT OFFICE

NOVEMBER 1, 1870.

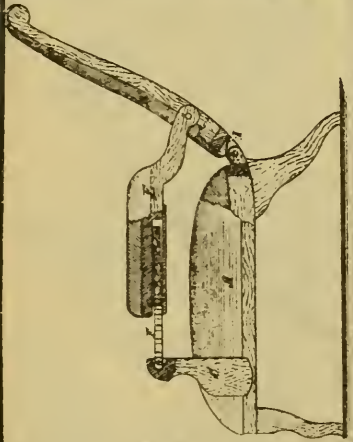
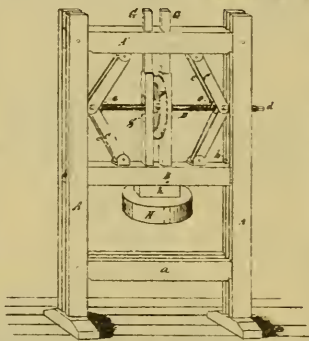
108,749 E. F. ALLEN FRICTION PULLEY



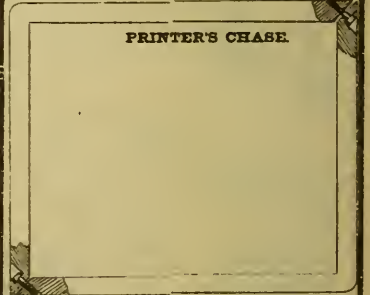
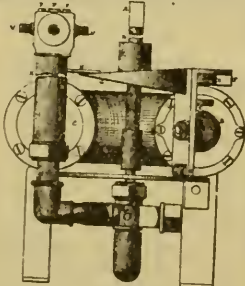
108,752 R. BEAL CURTAIN FIXTURE

108,758. D. M. CHURCH
THREAD WINDING MACHINE108,759. T. A. CLEMENTS.
PRINTER'S CHASE

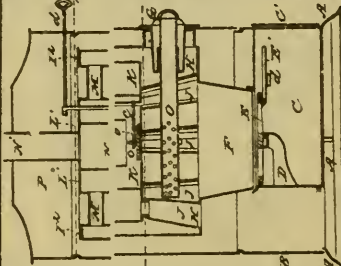
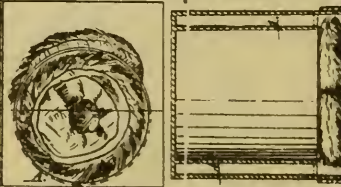
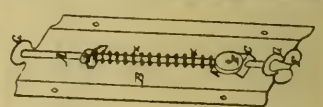
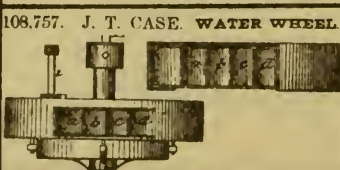
108,750 E. BARTELS RECLINING CHAIR

108,753. G. B. BOOMER, T. G. MORSE
AND R. E. BOSCHERT CHEESE PRESS

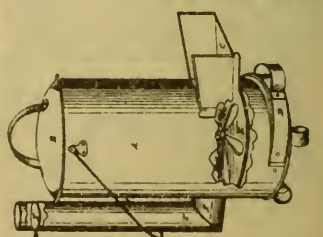
108,760. T. A. CLEMENTS.

108,751. F. BAUSCHTLIKER
COMBINED HYDRANT AND FIRE PLUG

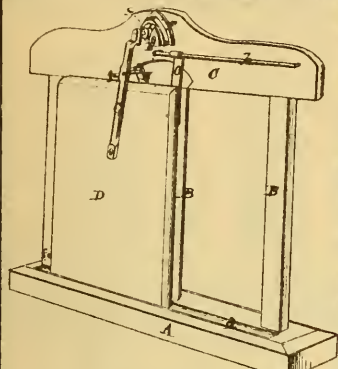
108,754 R. F. BROWN HOT AIR FURNACE

108,755. J. C. BUDD
MUFF, COLLAR AND CUFF BOX108,761. W. C. CLOVER
CURTAIN FIXTURE108,756. H. H. CAPAMAGIAN
COMPOUND FOR TREATING WOOL

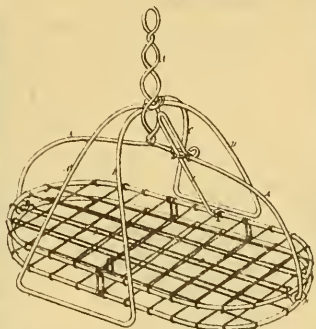
108,757. J. T. CASE. WATER WHEEL

108,762. M. CONNER
TINSMITH'S FURNACE

108,763. L. A. COOK. SLIDING DOOR.

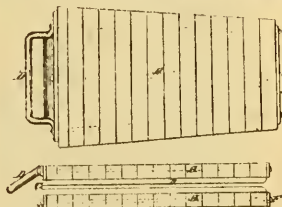


108,768. A. DICK. BROILER.

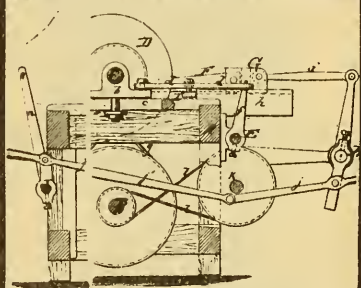


108,773 J. ELLINGWOOD FERMENTING ALCOHOLIC LIQUORS FROM GRAIN.

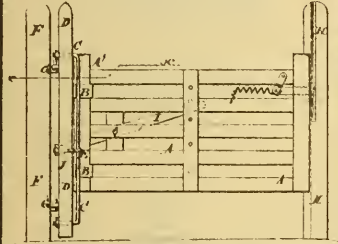
108,774 C. ESKRETT AND H. SEARLE OIL CAKE ENVELOPE.



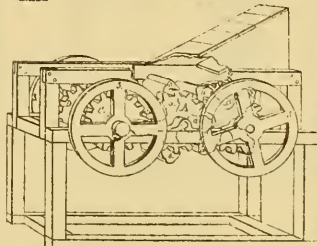
108,775. C. J. GARDNER MACHINE FOR GRINDING SAW BLADES



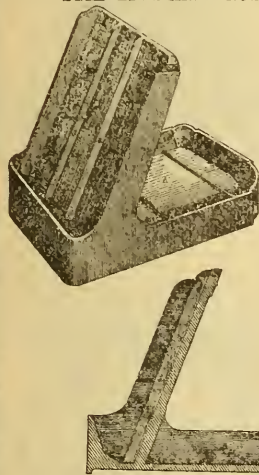
108,764. J. S. COVELL GATE.



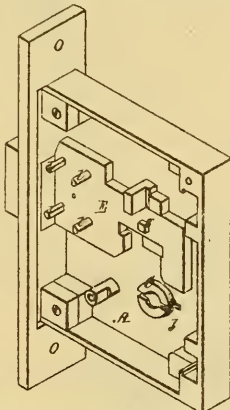
108,769. A. DIETZ. MACHINE FOR BREAKING STONE.



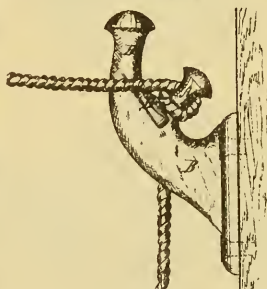
108,765. A. CRAWFORD SOAP DISH AND BRUSH RACK.



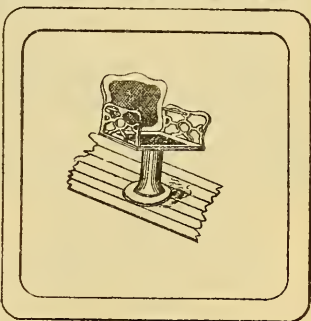
108,770. C. C. DICKERMAN. LOCK.



108,776. J. GARVEY AND M. H. KIMBALL CLOTHES LINE HOOK.



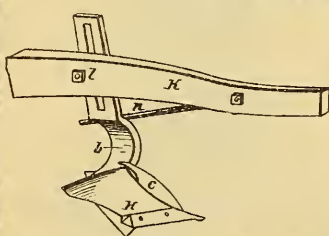
108,777. T. J. GIFFORD SPRING SEAT FOR RAILWAY CARS.



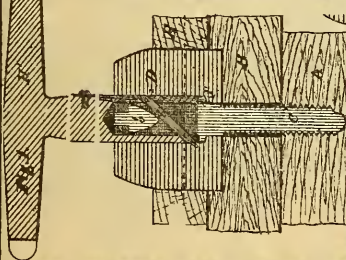
108,766. T. CROSBY LINE AND WIRE TIGHTENER.



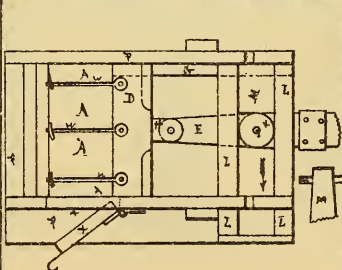
108,771. D. DILLENBACK FLOW JOINTER.



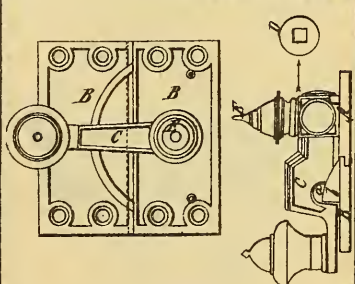
108,767. J. DAVIDSON LOCK FOR SLIDING DOOR.

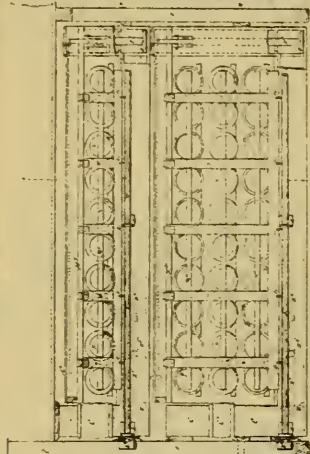
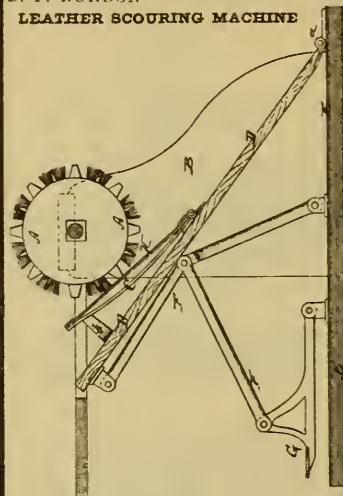
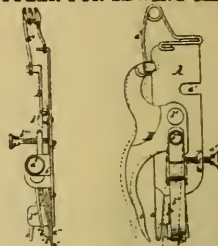
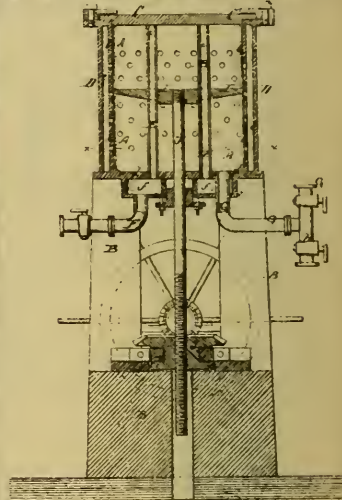


108,772. G. DUNCAN Baling Press.

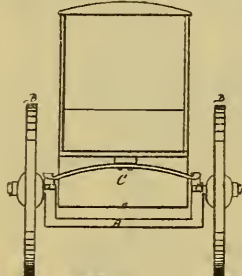


108,778. W. GORMAN SASH FASTENER.

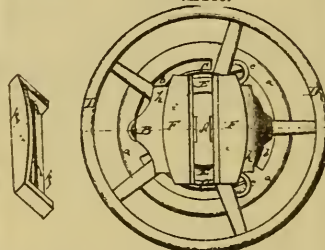


108,779. T. G. GREEN MACHINE
FOR MOLDING EARTHENWARE108,783. H. C. HAVEMEYER AND
D. P. BURDON
LEATHER SCOURING MACHINE108,787. C. W. HOWARD
RUFFLER FOR SEWING MACHINES108,788 A. K. HOWE APPARATUS FOR
DRYING AND PRESSING LARD SCRAPS.

108,780. R. B. GUDGE MILK WAGON.

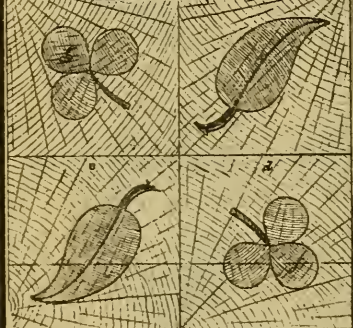
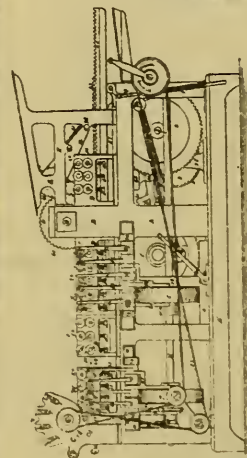
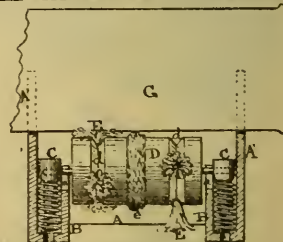


108,784. R. S. HILDRETH. VISE.

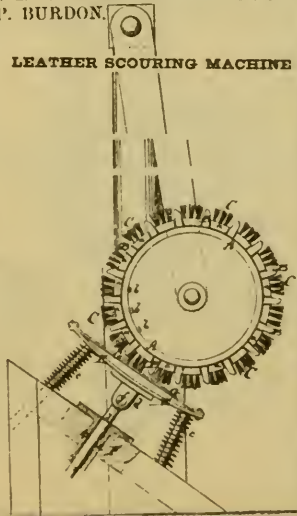
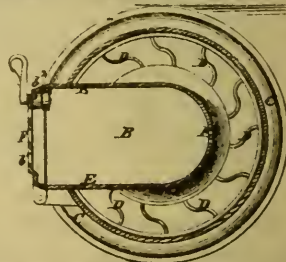


108,781. L. B. HAMILTON

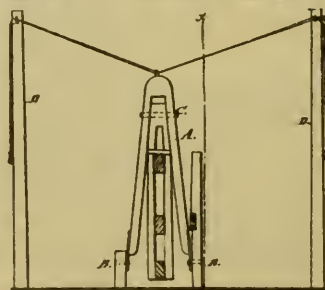
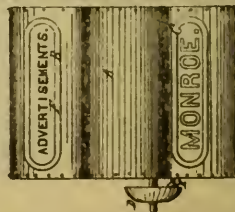
TESSELLATED FLOOR

108,785R M. HOE AND S. D. TUCKER
PRINTING PRESS108,789. C. HYATT
RAILWAY CAR AXLE LUBRICATOR108,782. H. C. HAVEMEYER AND
D. P. BURDON.

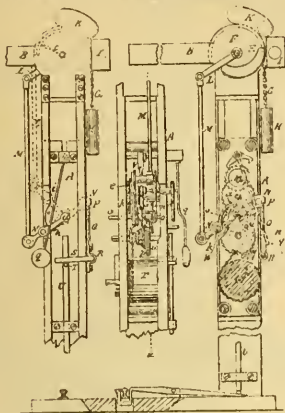
LEATHER SCOURING MACHINE

108,790. W. JAMES AND
W. JAMES. JR. HOT AIR FURNACE

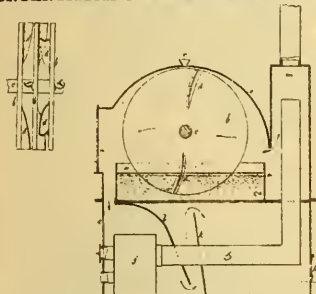
108,786. W. C. HOOKER. GATE.

108,791
G. A. JENKS AND J. J. FAWCETT
STREET AND STATION INDICATOR

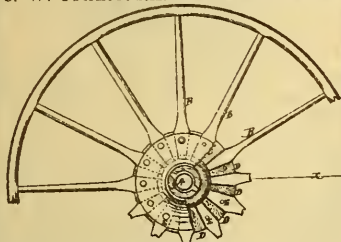
108,792. J. G. JOHNSON. TIME SIGNALING APPARATUS FOR RAILROADS.



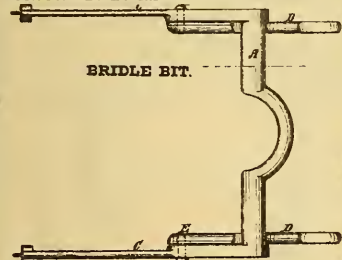
108,793. T. W. JOHNSON, JR., AND A. W. GOODELL. APPARATUS FOR EVAPORATING AND CONCENTRATING BARK EXTRACTS, &c.



108,794. T. M. JONES AND C. W. FILLMORE. CARRIAGE WHEEL.



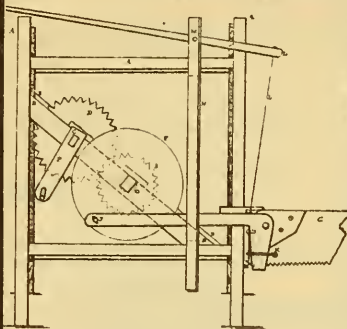
108,795. F. B. KALKBRENNER



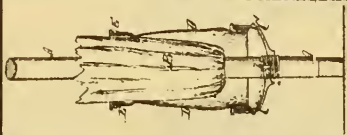
108,796. W. KEARNEY. GRATE BAR AND BEARER.



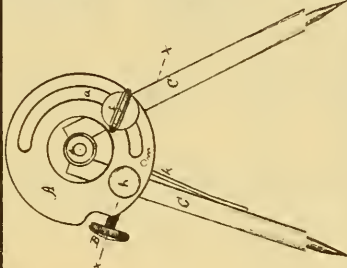
108,797. G. W. KEARNS. SAWING MACHINE.



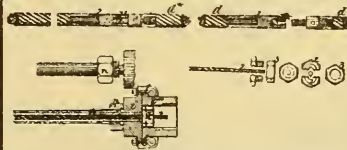
108,798. H. KEENAN. DRIP CATCH FOR UMBRELLAS.



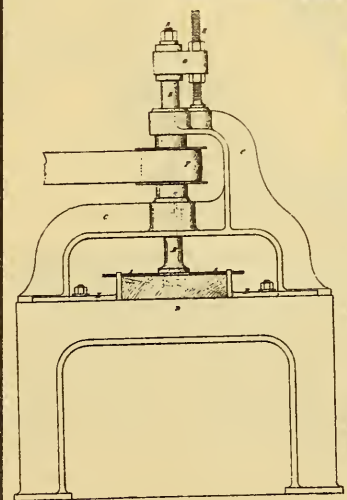
108,799. G. W. LANE. DIVIDERS AND CALIPERS.



108,800. G. LEACH. SHIPPING AND UNSHIPING SCREW PROPELLERS.

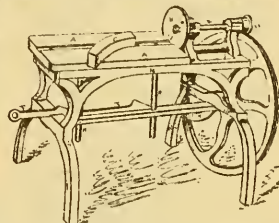


108,801. T. LLEWELLYN. PLANING MACHINE.

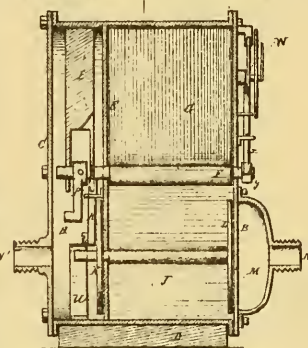


108,802. C. S. LYNCH. FIX FOR PUDDLING FURNACES.

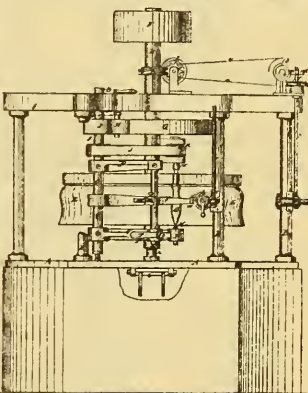
108,803. J. B. MARGESON. MACHINE FOR JOINTING STAIR RAILS.



108,804. G. B. MASSEY. LIQUID METER.



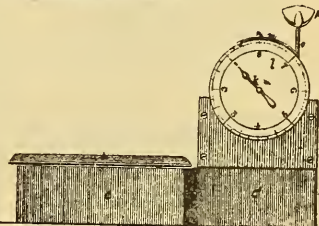
108,805. G. R. MATHER. APPARATUS FOR GIVING FORM TO WOOD.



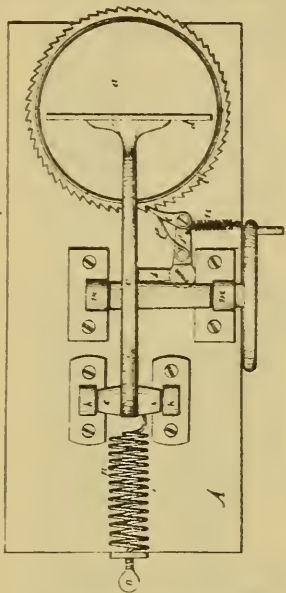
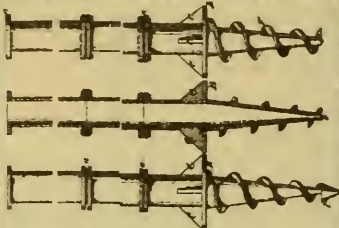
108,806. U. K. MAYO. MANUFACTURE OF GOLD FOIL FOR DENTAL PURPOSES.



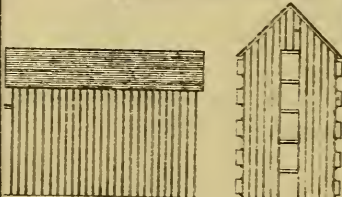
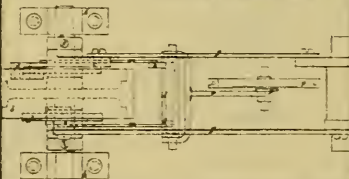
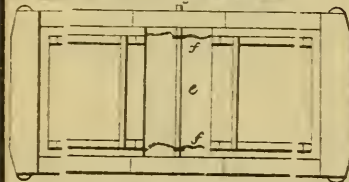
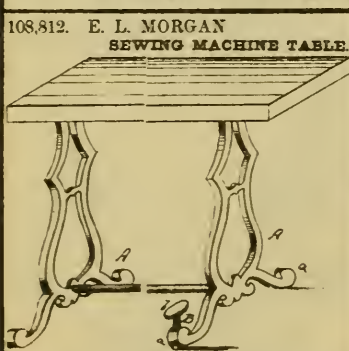
108,807. W. H. McCORMICK. WEIGHING SCALE.



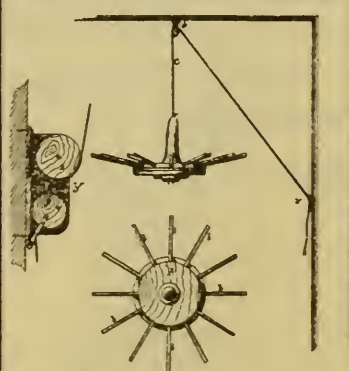
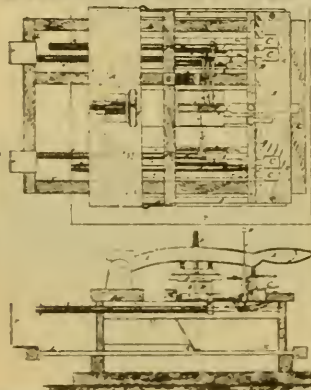
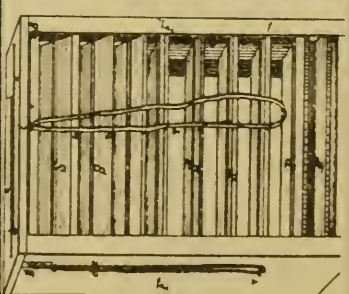
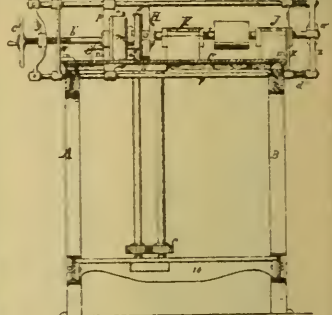
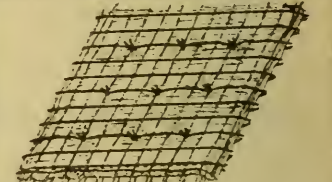
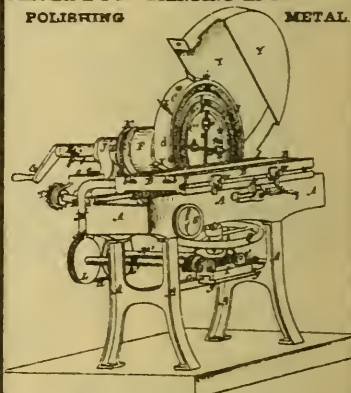
108,808. H. MEARNS. BLEACHING TOBACCO.

108,809. G. H. MELLE
MEAT CHOPPER.108,814. T. W. H. MOSELEY
FILE FOR ENGINEERING PURPOSES.

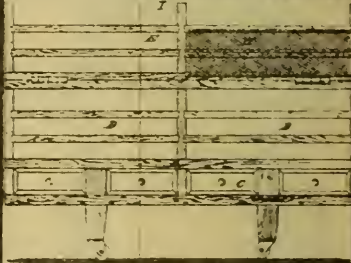
108,815N. NELSON'S SCREW CUTTING DIE

108,816S. J. NEWSHAM,
W. H. HAINE AND W. S. HENSON
MANUFACTURE OF ICE.108,817. E. NICHOLSON
CLUTCH GEARING.108,810. W. MERRINGTON AND
N. KIRKWOOD DUMPING CAR.108,811. J. J. MILLS AND W. PERRY
MEDICINE OR PAIN REMEDY108,812. E. L. MORGAN
SEWING MACHINE TABLE.

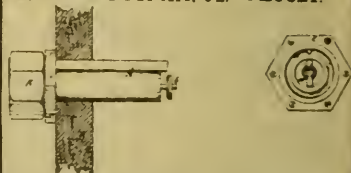
108,818. A. O'DELL. CLOTHES DRIER.

108,813W. T. MORGAN'S MACHINE FOR
PREPARING STEREOTYPE MATRICES.108,819. F. R. OSGOOD
FOLDING WINDOW BLIND.108,820. J. PENNEY
MACHINE FOR DRESSING HOOPS.108,821. A. PEPLE. PREPARING COTTON
WASTE FOR CLEANING MACHINERY.108,822J. H. PITKIN AND J. S. LANE
MACHINE FOR GRINDING AND
POLISHING METAL.

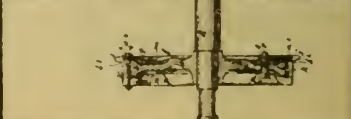
108,823. R. POOLE. STORE SHELVING.



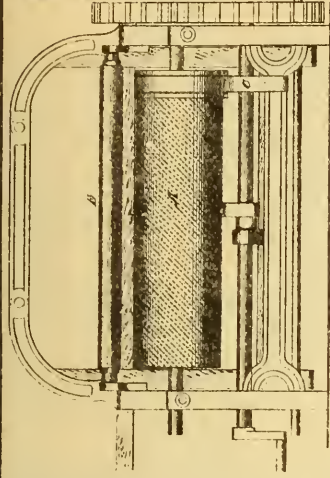
108,824. A. PUTNAM, JR. FAUCET.



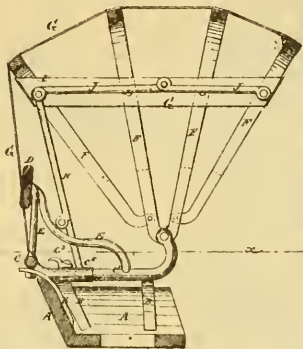
108,825. J. RADDIN CAR WHEEL.



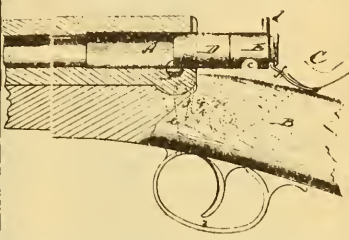
108,826. J. F. RANDALL WARP
TENSION MECHANISM FOR LOOMS



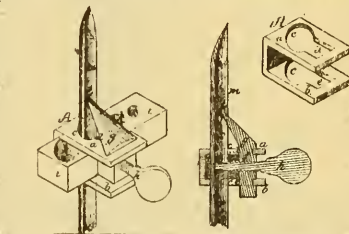
108,831. N. B. RICHARDSON
CARRIAGE TOP FIXTURE



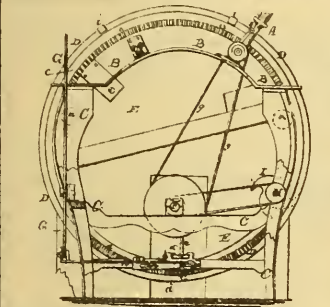
108,836. P. SCHULER
BREECH LOADING FIRE ARM



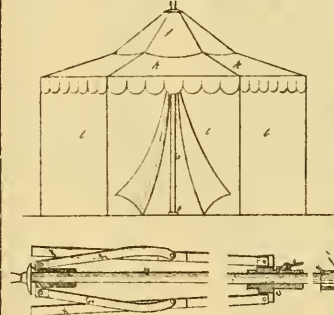
108,837. W. B. SHEDD COUNTERSINK



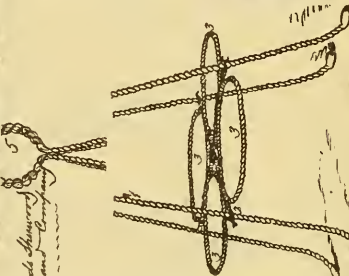
108,827. W. A. RAYER AND
W. STILLWELL SEWING MACHINE.



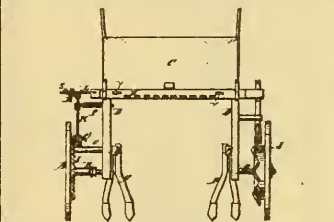
108,832. J. AND G. RITCHIE.
TENT AND UMBRELLA.



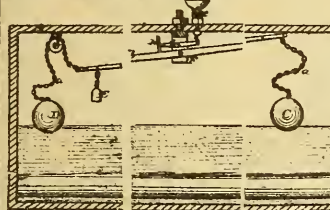
108,838 D. SHERWOOD TABLE CASTER



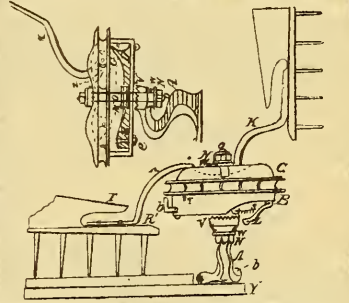
108,833 R. I. ROBESON AND W. NASH
COMBINED CULTIVATOR AND SEEDER



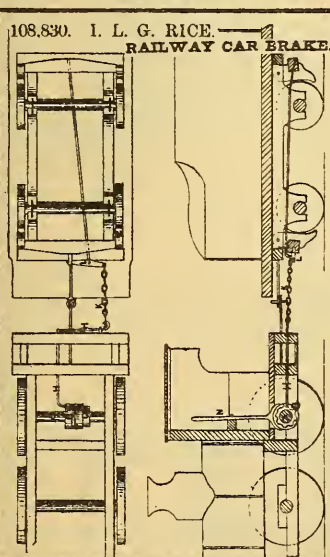
108,828. F. RAYNSFORD
LOW WATER INDICATOR



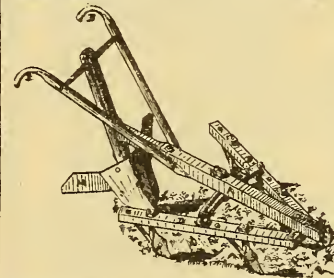
108,839 D. B. SHIRKHARVESTER RAKE



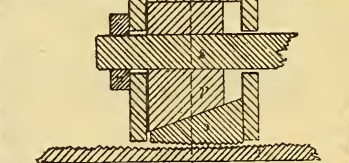
108,829. J. RESTLE.
TRANSPARENT VARNISH



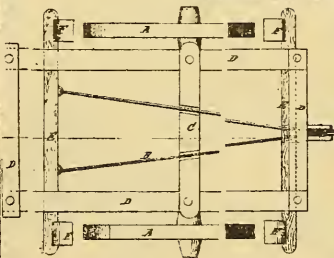
108,834. E. G. AND A. D. ROWELL
J. R. RICE, AND S. M. SEELY
SHOVEL FLOW AND CULTIVATOR



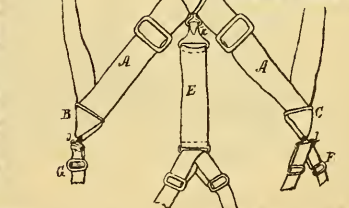
108,840. J. E. SINCLAIR
VISE.



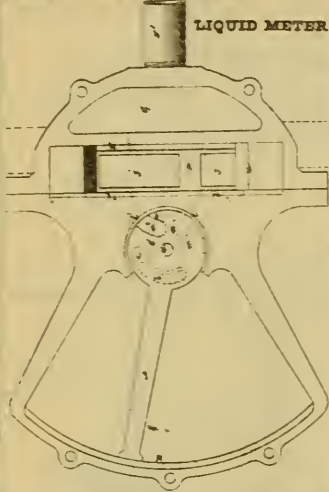
108,835. D. J. RUNDELL.
WAGON BRAKE.



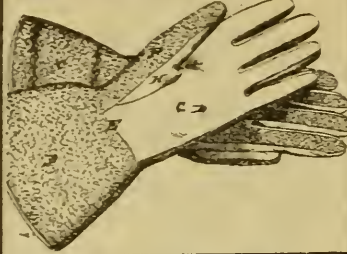
108,841. J. W. SMITH.
SUSPENDERS.



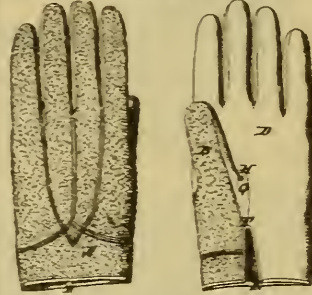
108,842. W. E. SNEEDIKER



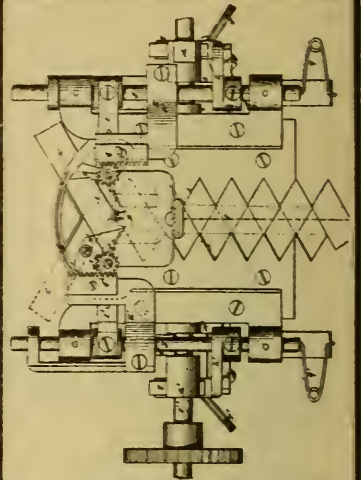
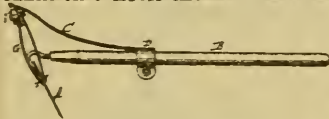
108,849. W. S. TOOKER. GLOVE



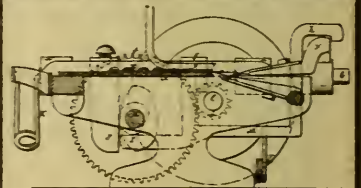
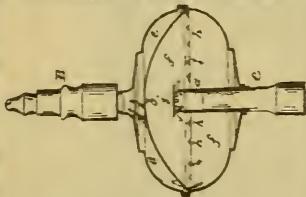
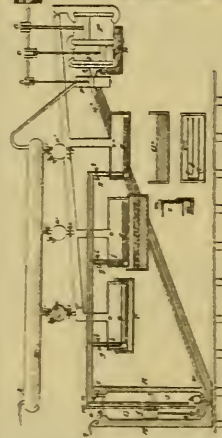
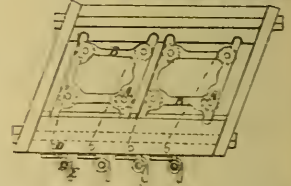
108,850. W. S. TOOKER. GLOVE



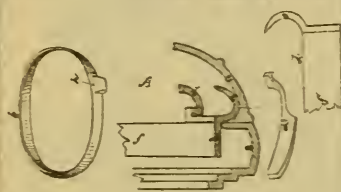
108,854. W. WALKER. PLAITING DEVICE

108,843. R. R. AND H. T. SPEDDEN
CLEANSING ATTACHMENT FOR BOES

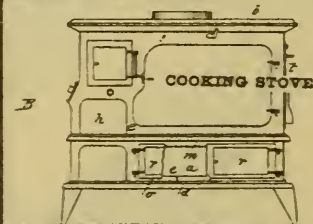
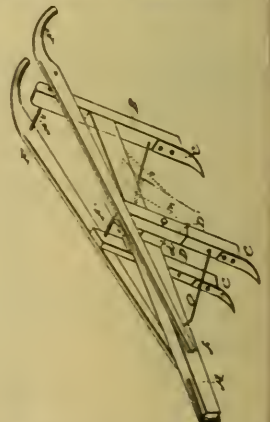
108,855. W. WALKER. PLAITING DEVICE

108,844. J. H. STEINER. CARBURETING
ATTACHMENT FOR GAS BURNERS108,851. P. H. VANDER WEYDE
MANUFACTURE OF ICE108,856. J. AND T. WALMSLEY.
WARPING MACHINE108,845. W. M. TANDY
COMPOUND FOR CLEANSING AND
PRESERVING THE TEETH AND GUMS108,846. D. H. TAYLOR. FINISHING
AND BLEACHING HANDLES &c

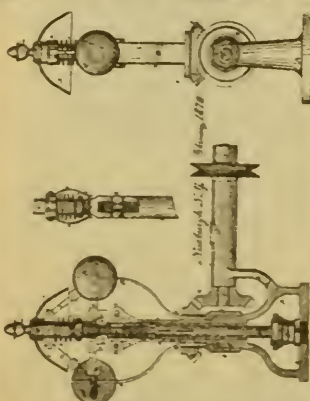
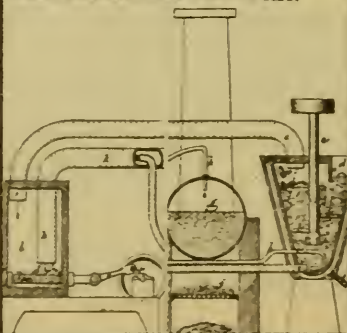
108,847. C. L. THIERY. WATCH CASE



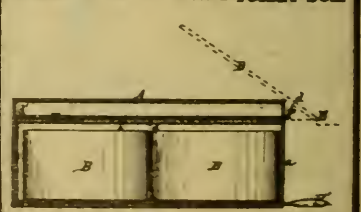
108,852. G. W. WALKER.

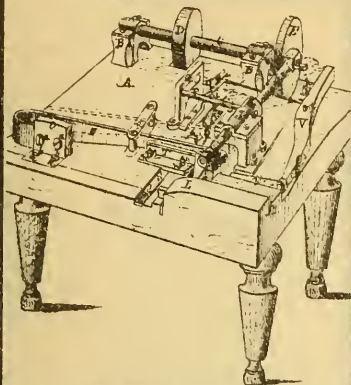
108,857. J. A. WALTER AND
E. RUSHMAN. CORN FLOW.

108,848. J. L. TODD. GOVERNOR

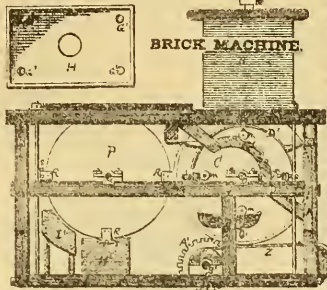
108,853. T. G. WALKER. EXPELLING
VOLATILE MATTER FROM PEAT.

108,858. S. W. H. WARD. TOILET BOX

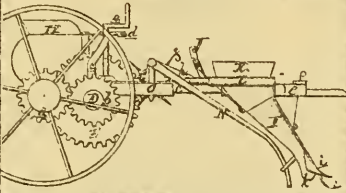


108,859. R. H. WATSON MACHINE
FOR MAKING WOODEN PINS.

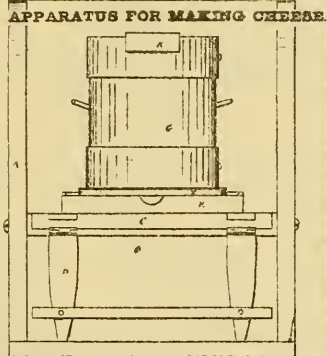
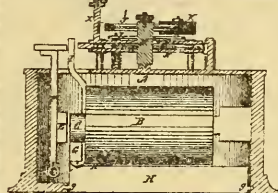
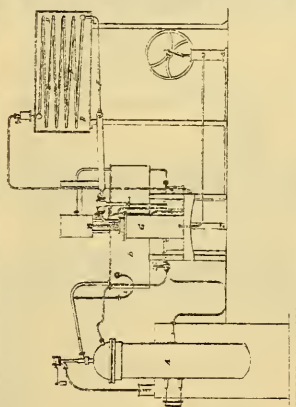
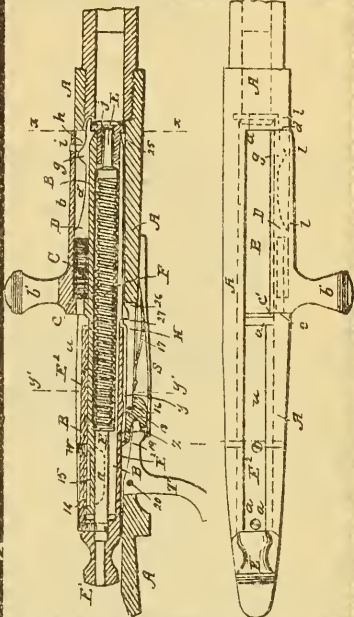
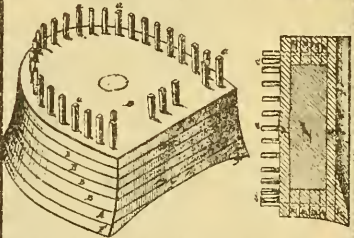
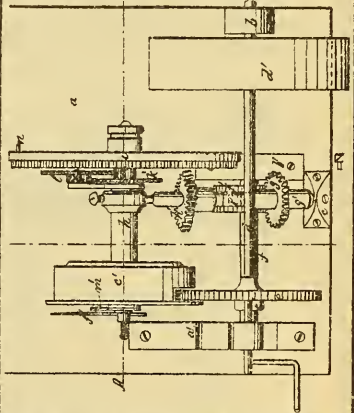
108,864. M. D. WILLIAMS



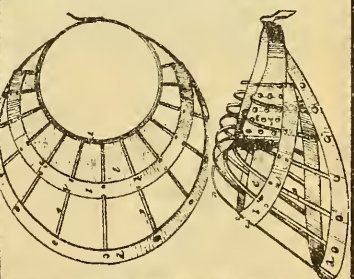
108,865. C. WISDOM. CORN PLANTER.



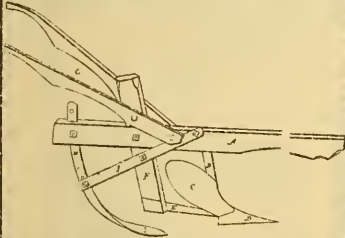
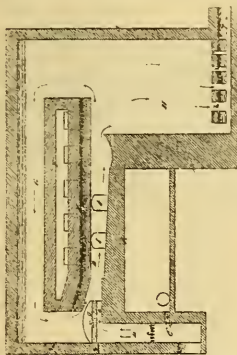
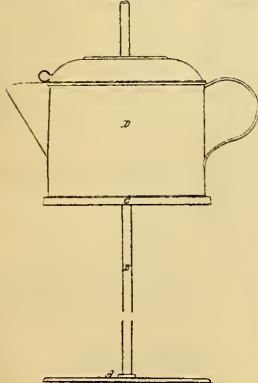
108,866E. L. YANCY AND C. E. DORMAN

108,867. G. L. ANDERS.
PRINTING TELEGRAPH108,868. S. BENNETT APPARATUS
FOR THE MANUFACTURE OF ICE.108,869. H. BERDAN
BREECH LOADING FIRE ARM.108,870. H. H. BIGELOW
HEEL FOR BOOTS AND SHOES.108,871. J. A. BRADSHAW AND
S. L. CROCKETT. MEASURING
APPARATUS FOR LOOMS, &c.

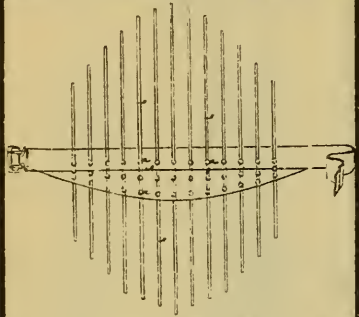
108,872. J. BROUGHTON. BUSTLE.



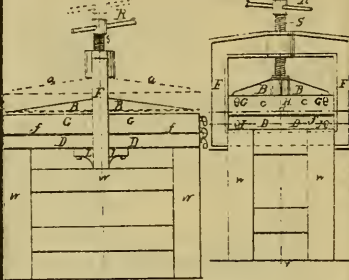
108,860. J. W. WEBB. PLOW.

108,861. A. WEICHERT.
MANUFACTURE OF SUGAR.108,862. T. WEISS
METALLURGIC AND OTHER FURNACES108,863. W. N. WHITE
HEATING APPARATUS FOR LAMPS

109,873. J. BROUGHTON BUSTLE.

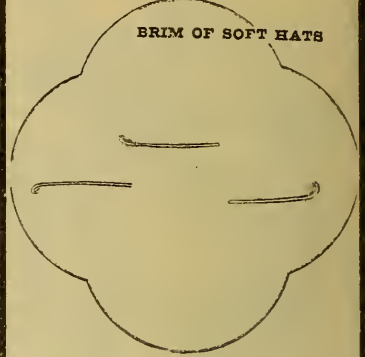
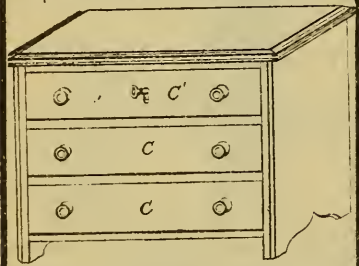
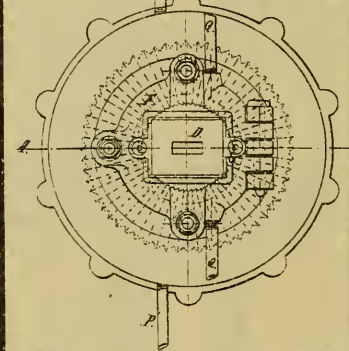


109,879. A. CHACE. STEREOTYPING.



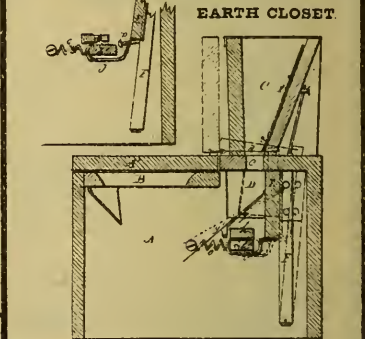
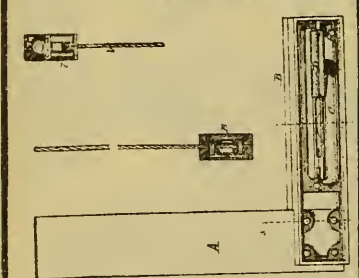
109,884. J. W. COREY

BRIM OF SOFT HATS

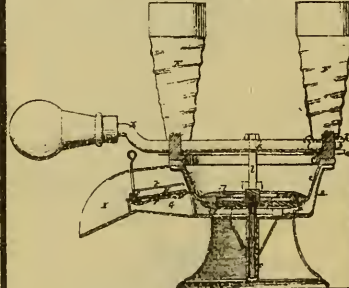
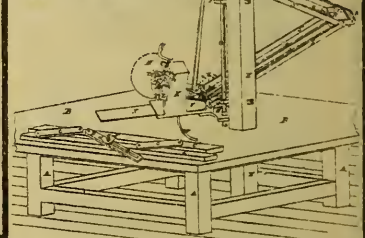
109,874. J. T. BROWN AND L. HIRD
AUTOMATIC FURNITURE LOCK.109,880. C. CHAMBERS, JR.
BRICK MACHINE.

109,885. R. A. COWELL

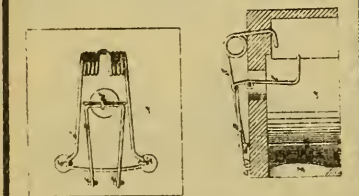
EARTH CLOSET.

109,875. H. L. BUCKWALTER
TRY-SQUARE AND LEVEL.

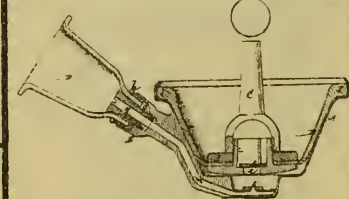
109,881. L. O. COLVIN COW MILKER.

109,886
J. H. CURELL
SAWING MACHINE.

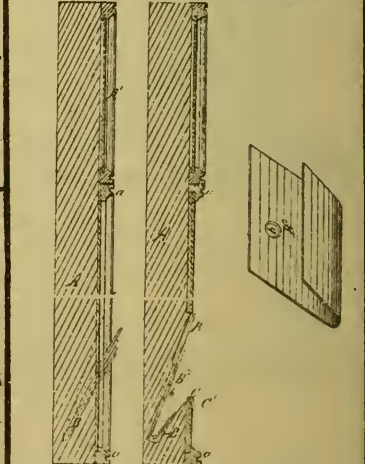
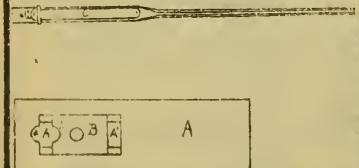
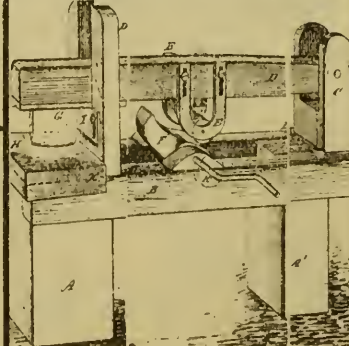
109,876. J. N. BUNNELL MOUSE TRAP.



109,882. L. O. COLVIN BREAST PUMP.



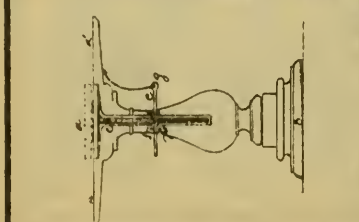
109,887. J. F. CURTIS. CARD RACK.

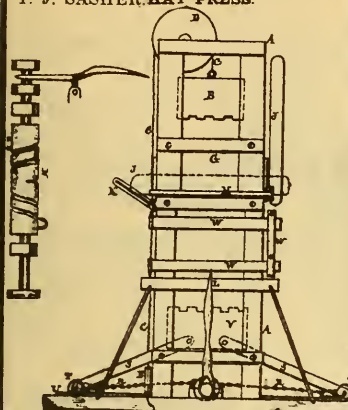
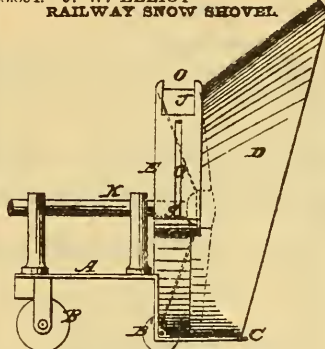
109,877. A. W. BUSH
WATCHMAKER'S VISE.109,883. E. COOGAN
WOOD SPLITTING MACHINE.

109,889. S. G. DARE. GAS HEATER.



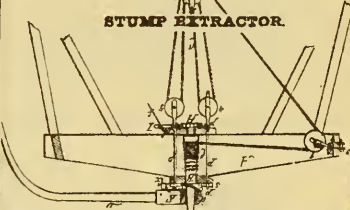
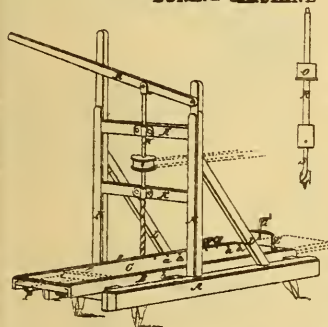
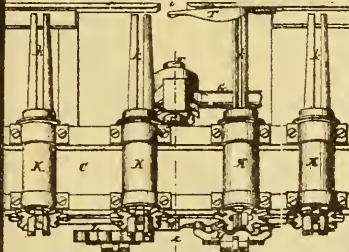
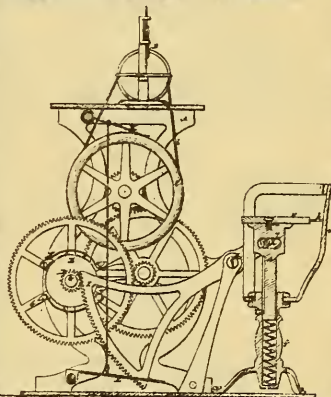
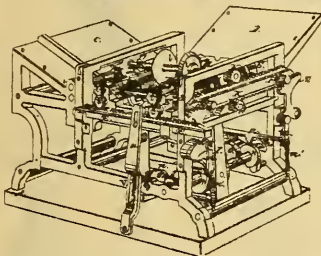
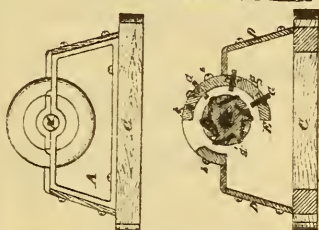
109,878. R. C. CASE. DINING TABLE.



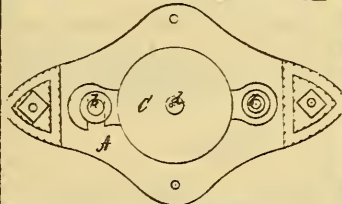
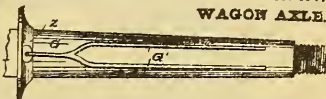
108,889. J. H. DAVISON AND
T. J. SASHER. HAY PRESS.108,894. J. W. ELLIOT
RAILWAY SNOW SHOVEL.108,900. J. H. GARRETT
PLATE FOR HARNESS SADDLE.

108,901. L. B. GIBSON.

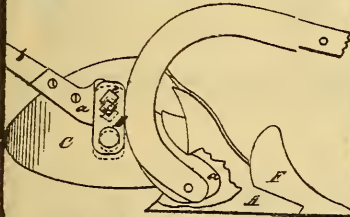
STUMP EXTRACTOR.

108,890. W. H. DEATRICK
BORING MACHINE.108,895. D. J. FARMER
MACHINE FOR CUTTING NAILS.108,902. V. GIROUD APPARATUS FOR
OPERATING SEWING MACHINES.108,891. ST. CLAIR DENNY AND
I. L. G. RICE
PAPER CUTTING MACHINE.108,896. W. R. FEE
COTTON SEED MULLER.

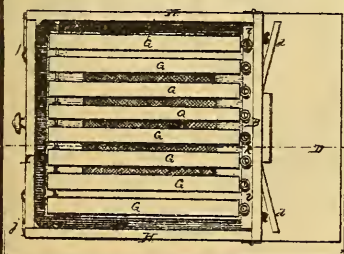
108,897. H. FISCHER. BUNG LOCK.

108,903G. H. GLAD AND J. C. BECKER
WAGON AXLE.

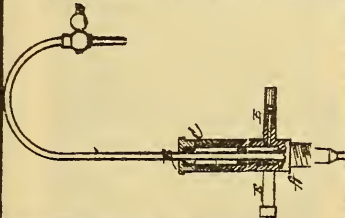
108,892. E. DIETSCH FLOW.



108,893. E. J. DONOVAN BEE HIVE.

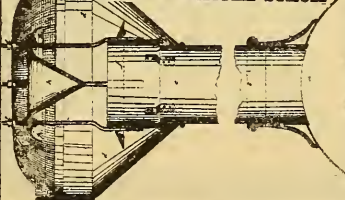
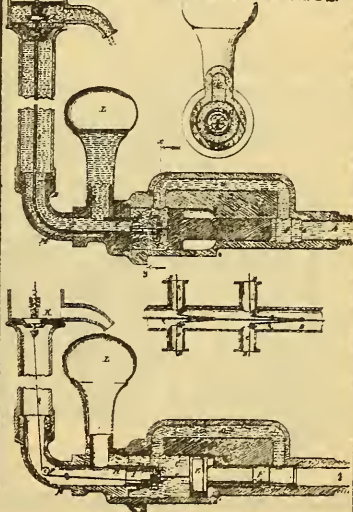


108,898. H. FISCHER BOTTLE FAUCET.

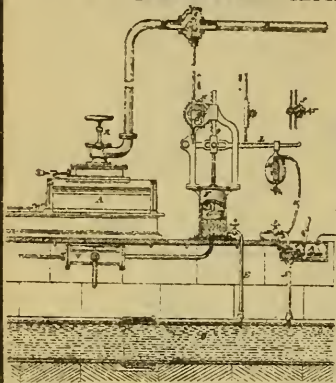


108,899. E. FONTAINE.

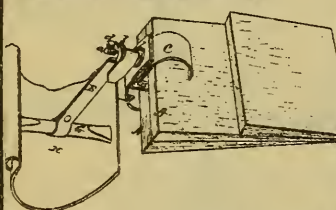
LOCOMOTIVE SMOKE STACK.

108,904. J. C. HAGAN PRESSURE
REGULATOR FOR WATER AND
STEAM APPARATUS.

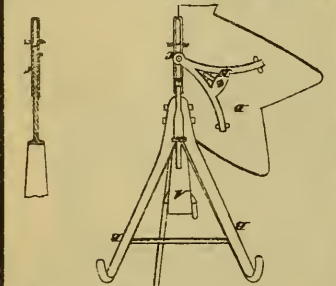
108,905. J. C. HAGAN.
STEAM AND WATER SUPPLY AND
PRESSURE REGULATOR.



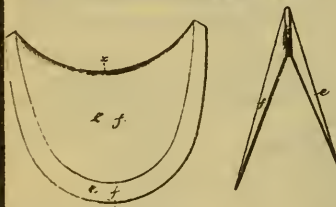
108,906. M. HENNEY AND
W. B. RAGER
EAVES TROUGH FASTENER.



108,907. E. C. HODGE.
REVERSIBLE FLOW.

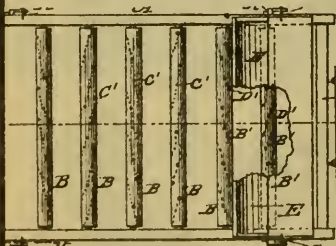


108,908. B. M. HOTCHKISS.
DRESS SHIELD.

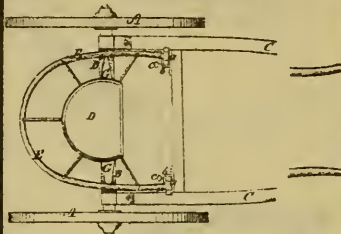


108,909. C. P. HOUGHTON
MANUFACTURE OF FERTILIZER.

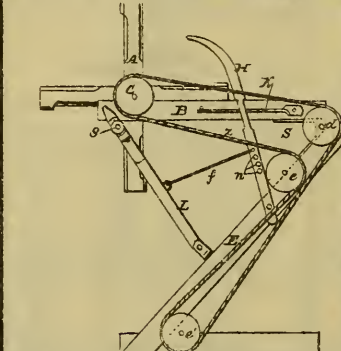
108,910. J. JACOBSON HARROW.



108,911. J. JENKINS. BULKY.



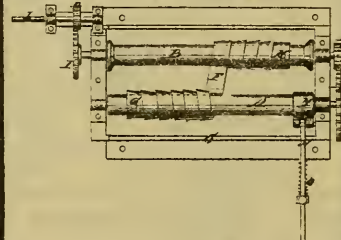
108,912. J. H. KELLER HARVESTER REEL.



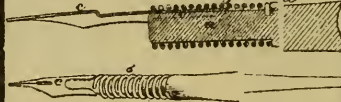
108,913. J. S. KENYON AND L. FOX
MANUFACTURE OF PAPER.

108,914. J. S. KENYON AND L. FOX
MINERAL PAINT.

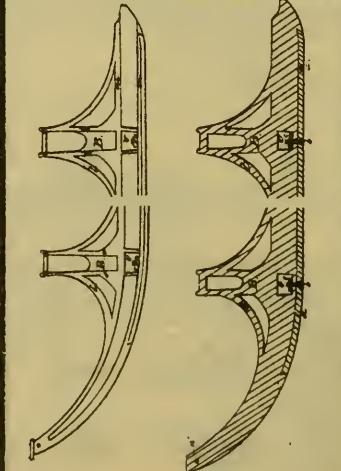
108,915. L. W. LATHROP
MOTIVE POWER APPARATUS.



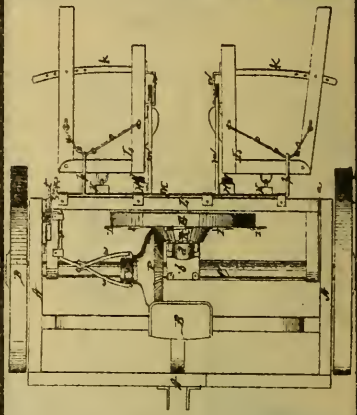
108,916. B. LAWRENCE. PEN HOLDER.



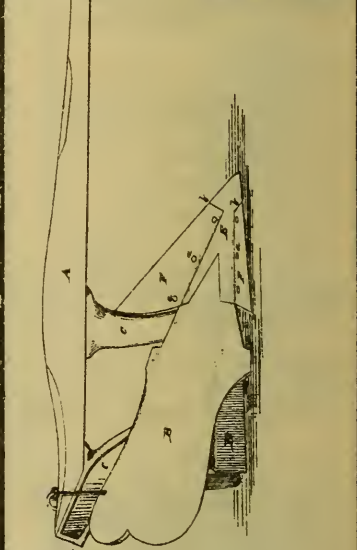
108,917. J. LOGAN. SLEIGH RUNNER.



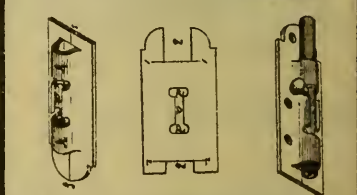
108,918. J. A. LUTZ COTTON CHOPPER.



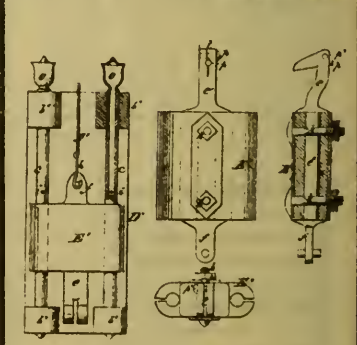
108,919. E. G. MATTHEWS
SWIVEL PLOW.

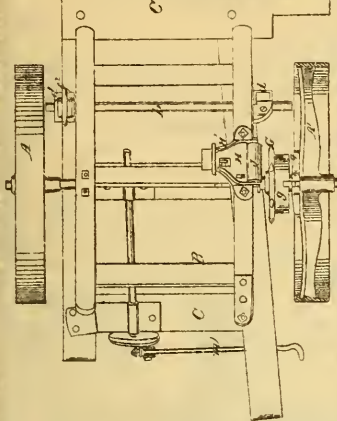


108,920. D. McARTHUR. DOOR BOLT.

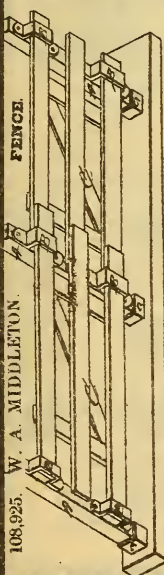
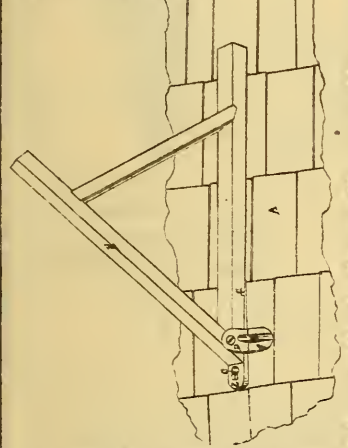


108,921. R. McCHESNEY. SCROLL SAW.



108,922. L. J. McCORMICK AND
W. R. BAKER HARVESTER.

108,923. A. McDONALD PAINT BRUSH.

108,924. L. W. MERRIAM
ROOFING BRACKET.

108,925.

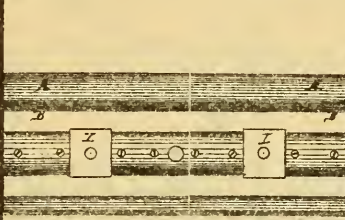
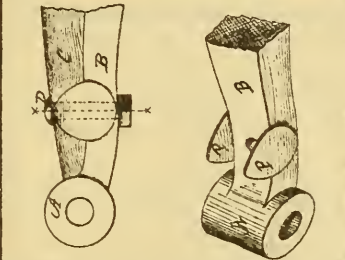
W. A. MIDDLETON.



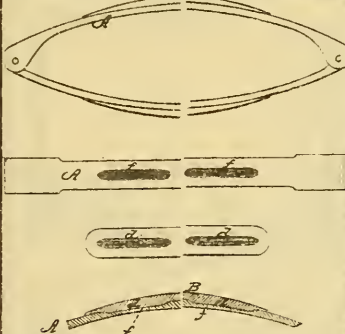
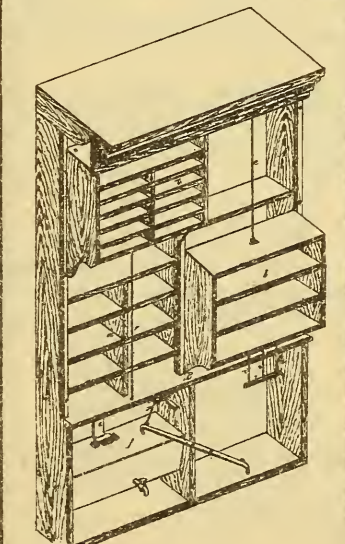
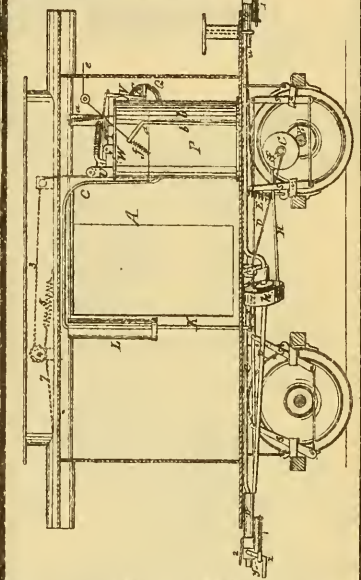
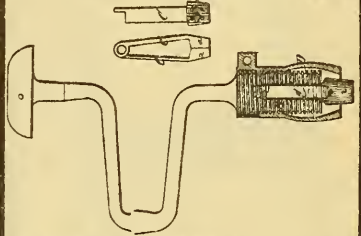
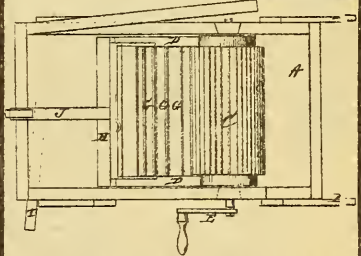
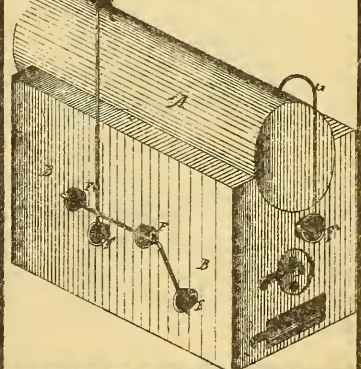
108,926. W. R. MIDDLETON.

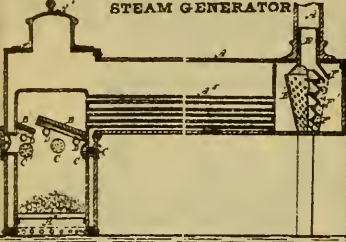
MACHINE FOR SEPARATING MIDDINGS

108,927. J. MILLER, JR. LOCK NUT.

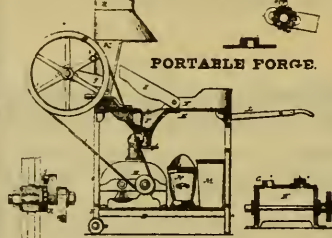
108,928. F. B. MORSE.
SHAFT IRON FOR CARRIAGES.

108,929 F. B. MORSE CARRIAGE SPRING.

108,930. R. MURDOCH
SHELVING FOR STORES.108,931. E. D. MURFEY
COMPOSITION FOR BEARINGS.108,932. D. MYERS AND
A. B. PULLMAN
PNEUMATIC CAR BRAKE.108,933. Z. S. OGDEN. DEVICE FOR
CUTTING SCREW THREADS.108,934. A. M. PAULLIN
WASHING MACHINE.108,935. J. T. RICH
STEAM GENERATOR.

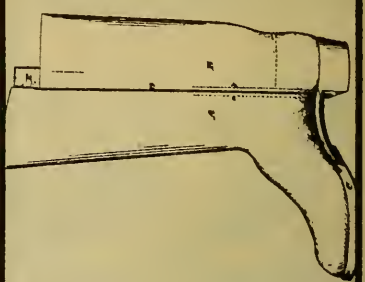
108,936 J. T. RICH.
STEAM GENERATOR

108,941. P. H. AND F. M. ROOTS

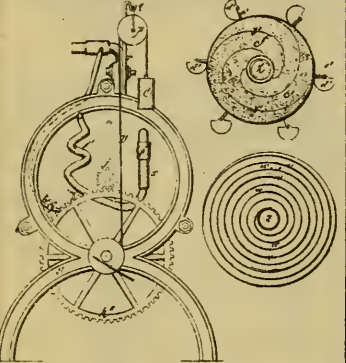


PORTABLE FORGE.

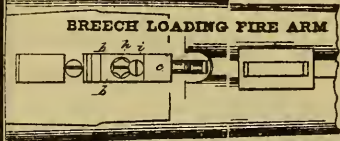
108,948. J. H. WALKER. BOOT.



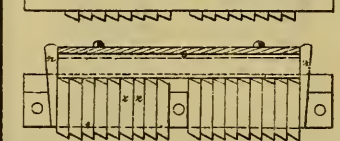
108,937 J. E. RICHARD GAS APPARATUS



108,942. W. M. SCOTT.

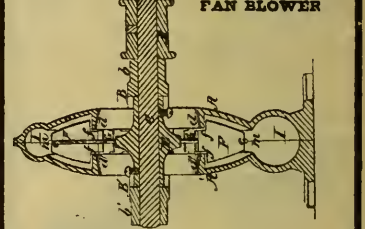
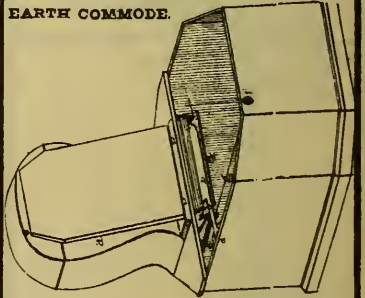
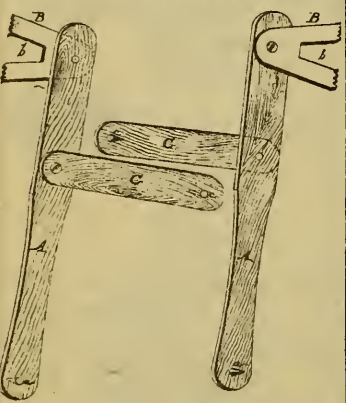


BREECH LOADING FIRE ARM

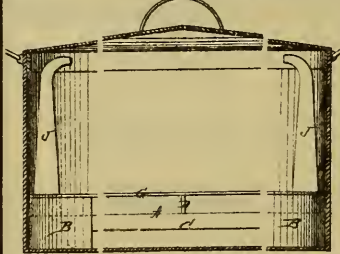
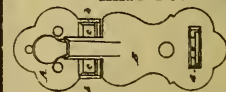
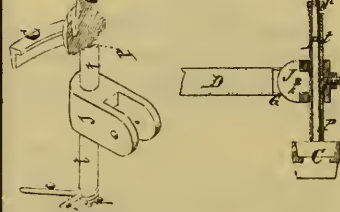
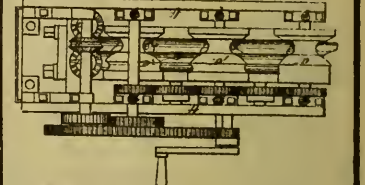
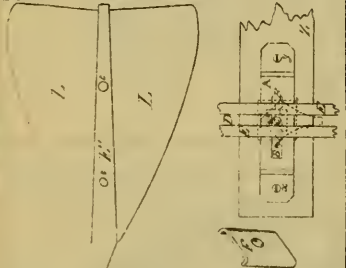
108,943. J. W. SMITH
GROOVING MACHINE

108,949. L. D. WHEELER

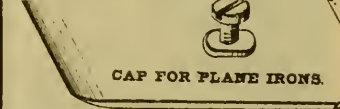
FAN BLOWER

108,950. E. WOODRUFF.
EARTH COMMODE.108,938. A. S. RICHARDS
CARPET STRETCHER.

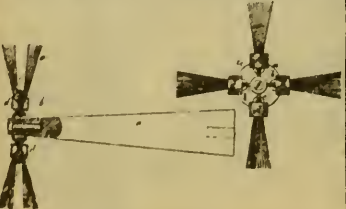
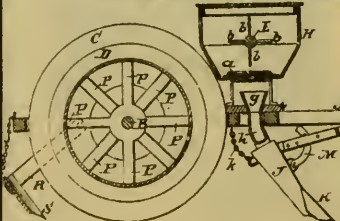
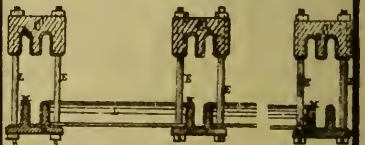
108,944. O. F. STEDMAN WASH BOILER

4,170. S. CROFT AND
J. C. SCHUELLERMAN
HASP FOR TRUNK LOCKS.108,945. D. C. STOVER.
CULTIVATOR4,171. A. JOHNSON
MACHINE FOR ROLLING CORNICES.108,939. A. F. ROBERTS.
SUBSOIL ATTACHMENT FOR PLOWS

108,946. C. N. TUTTLE.



CAP FOR PLANE IRONS.

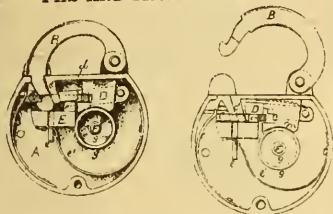
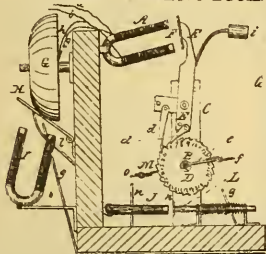
4,172. R. MONTGOMERY
CORRUGATED IRON BRIDGE108,940. J. ROGERS FINISHING
THE SURFACE OF PLATED GOODS.108,947. E. WAGNER.
COTTON AND CORN PLANTER4,173. E. WAITE.
FABRIC FOR
THE MANUFACTURE OF SHOES, &c.

ILLUSTRATIONS OF PATENTS

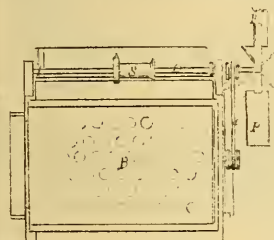
ISSUED FROM

THE UNITED STATES PATENT OFFICE

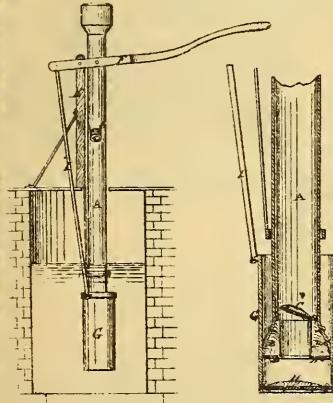
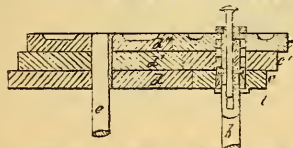
NOVEMBER 8, 1870.

108,951. A. M. ADAMS.
PAD AND TRUNK LOCK.108,952. H. ARDEN
ELECTRO MAGNETIC LOCK.

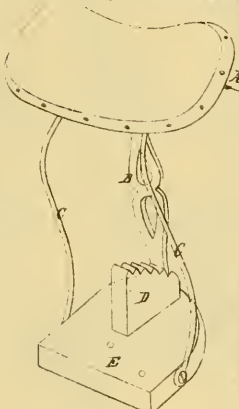
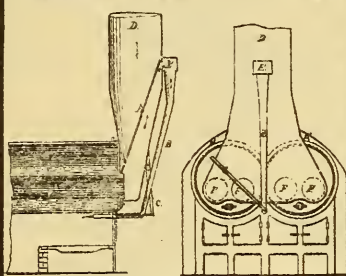
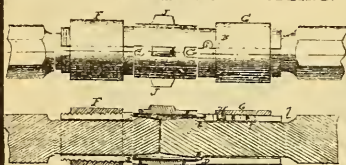
108,953. H. K. AVERILL FANNING MILL.



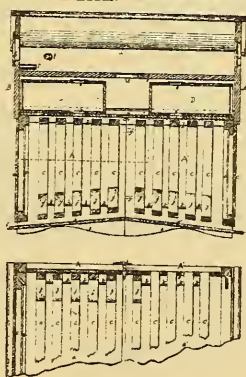
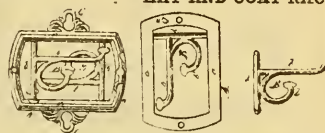
108,954. W. C. BARKER. PUMP.

108,955. W. M. BARR
GEARING FOR METAL PLANERS

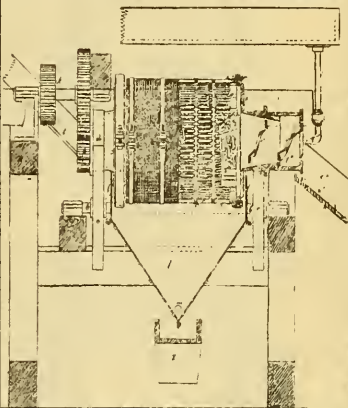
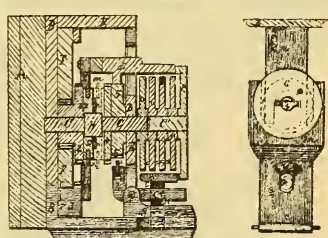
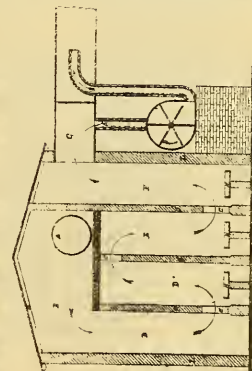
108,956. J. S. BARTLETT HEAD REST.

108,957. W. A. BATTERSBY COMPOUND
FOR PIPES, TILES, SIDEWALKS, &c.108,958. D. BEACH.
SPARK CATCHER AND CONSUMER108,959. J. H. BEATTY.
SUCKER ROD COUPLING.

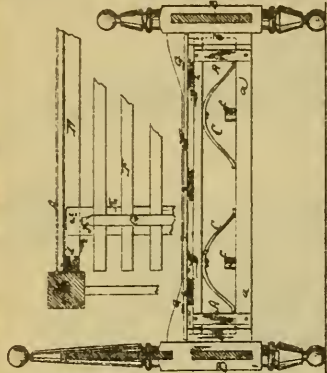
108,960. J. BEHE. BEE HIVE.

108,961. G. T. BENSON
HAT AND COAT RACK.

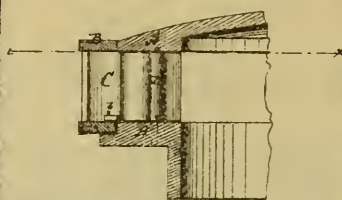
108,962. H. BRADFORD DORE WASHER.

108,963. J. C. BRANCH AND
H. P. QUIN LINIMENT.108,964. F. H. BROWN.
PERMUTATION LOCK.108,965. J. E. BURROWS. APPARATUS
FOR COOLING THE VAPORS
OF OXIDE OF ZINC.

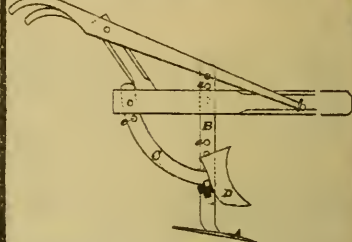
108,966 T. A. CARLE SPRING BED BOTTOM



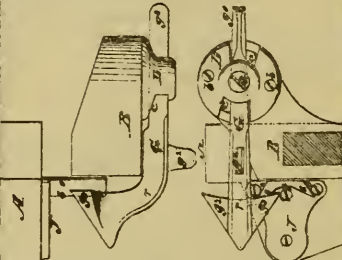
108,970 F. G. COGGIN WATER WHEEL



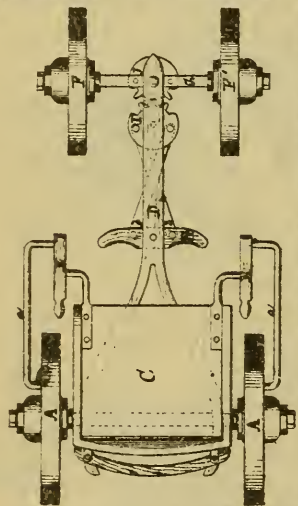
108,975 R. S. CROCKETT PLOW.



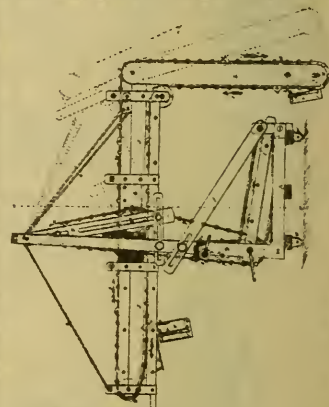
108,971 C. COLE GATE LATCH



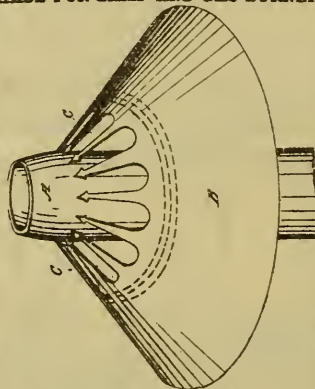
108,967 A. CHRISTIAN STEERING MECHANISM FOR VELOCIPEDS.



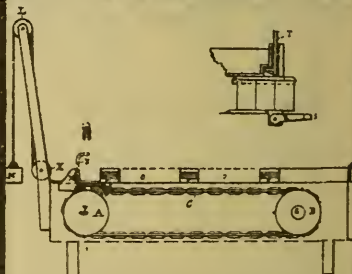
108,976 H. C. CROSBY PORTABLE ELEVATOR AND CONVEYOR



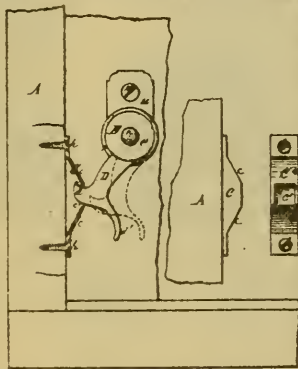
108,972 M. H. COLLINS SHADE FOR LAMP AND GAS BURNERS.



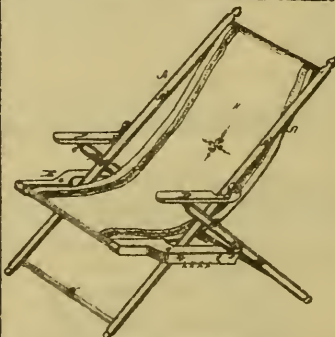
108,977 P. D. CUMMINGS DEVICE FOR KEYING PAVING BLOCKS



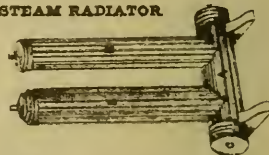
108,968 C. B. CLARK SAW HOLDER



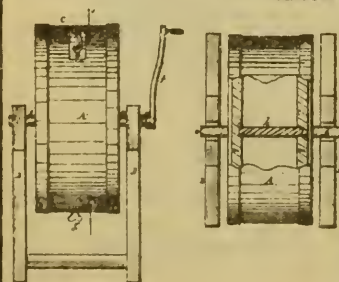
108,973 T. B. COMINS, JR. FOLDING CHAIR



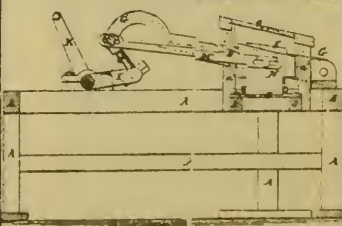
108,978 L. S. DANIELS STEAM RADIATOR



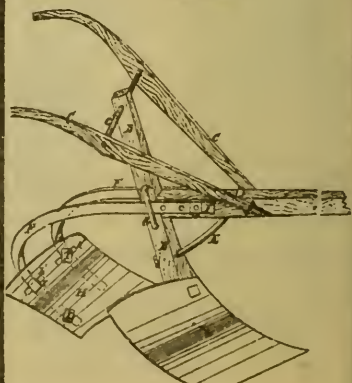
108,969 T. COFFIELD AND B. EGLI CRUM.



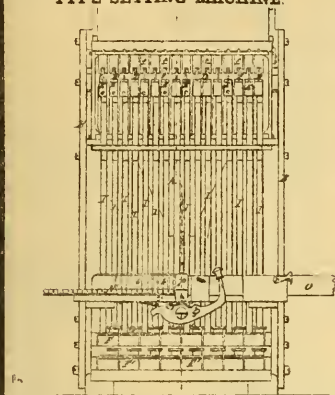
108,974 E. A. CRALLE, JR. STRAW CUTTER



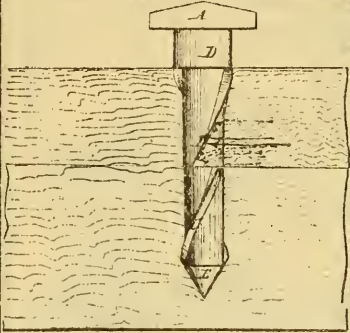
108,979 A. DAY PLOW.



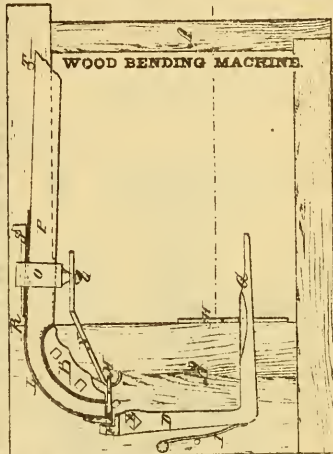
108,980. M. DE LA PEÑA
TYPE SETTING MACHINE.



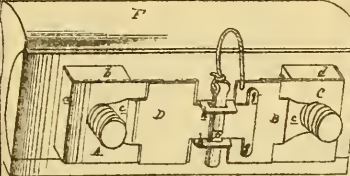
108,986. A. C. AND I. L. DUNN
SCREW SPIKE FOR RAILROADS



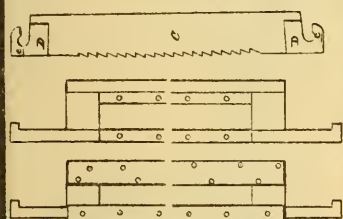
108,992. J. FIPPS



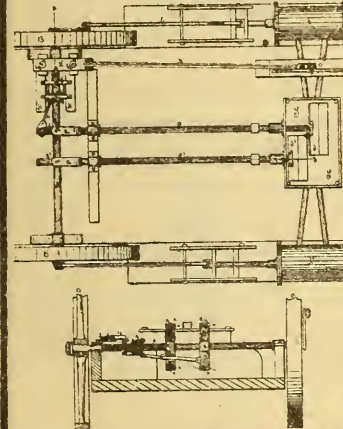
108,987 P. DYER, JR., A. PARKER, AND
W. B. WAY LOCK NUT.



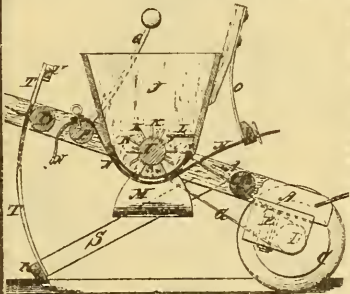
108,981. M. DELUDE. SAW MILL.



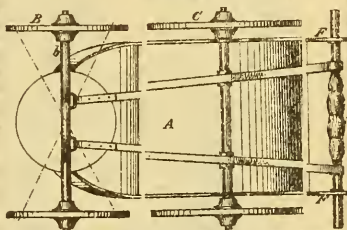
108,982. W. B. DODDRIDGE.
VALVE GEAR FOR STEAM ENGINE.



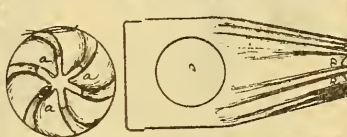
108,988 J. M. ELLIOTT SEED PLANTER.



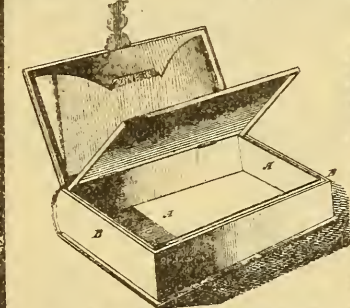
108,993. I. N. FORRESTER
CHILDREN'S CARRIAGE.



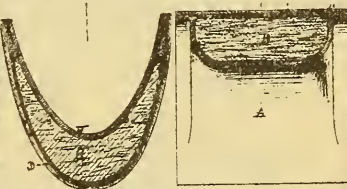
108,994. J. T. FOSTER
WINDOW SASH WEIGHT.



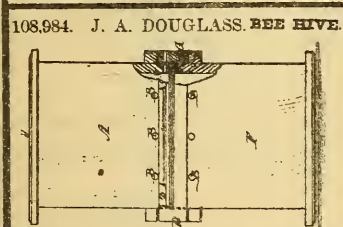
108,989. J. ELSON. LUNCH BOX



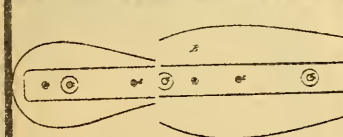
108,995 J. FRASER HORSE COLLAR PAD



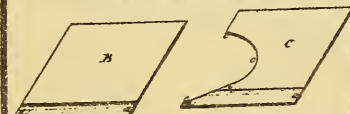
108,983. J. E. DOTCH.
PRESERVING MEAT FISH OYSTERS, &c



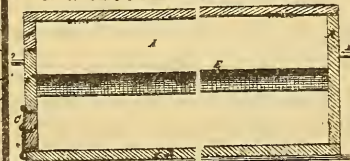
108,985. C. S. DUNBRACK
INSOLE FOR MANUFACTURING SHOES



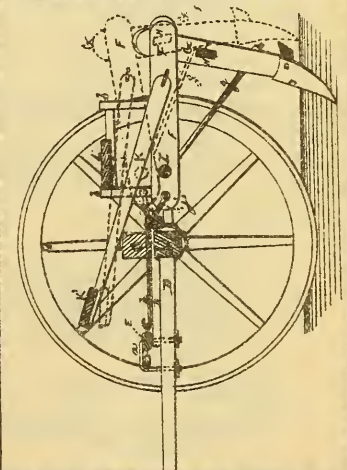
108,990. J. E. EMERSON.
BLANK FOR SAW TEETH



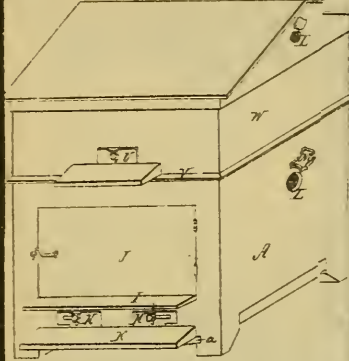
108,991. W. S. ESTEY AND
I. S. CLOUGH ASH SIFTER.



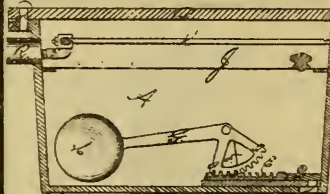
108,996. D. FULLER.
ATTACHMENT OF CULTIVATOR
FRAMES TO WAGON AXLE TREES.



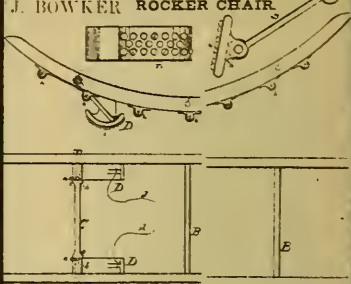
108,997. G. G. GABRION BEE HIVE.



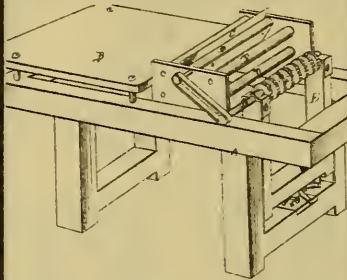
109,004. M. C. GOVE STEAM TRAP.



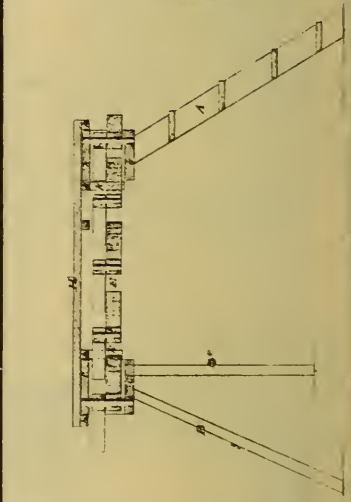
109,011. C. H. HUDSON AND J. BOWKER ROCKER CHAIR.



109,005. J. T. HALL LATH MACHINE.



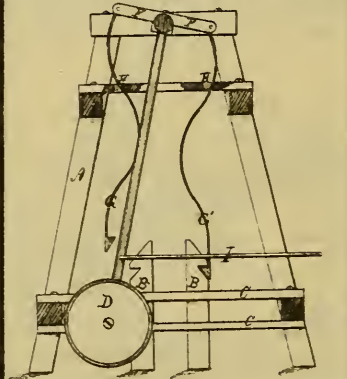
109,012. J. HUGHES EXTENSION SCAFFOLD.



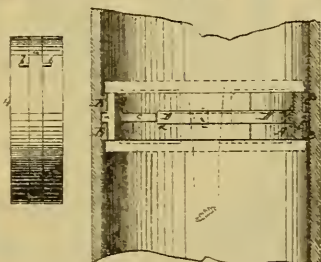
108,998. D'ALEMBERT. GALE.



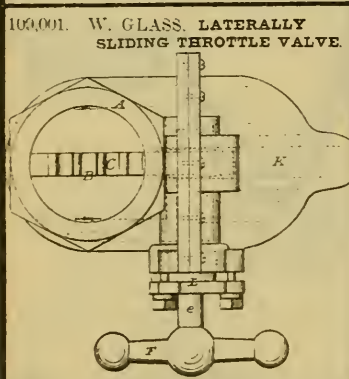
109,006. J. HART. PENDULUM CRUSHING MILL.



108,999. J. GATES. PISTON PACKING.

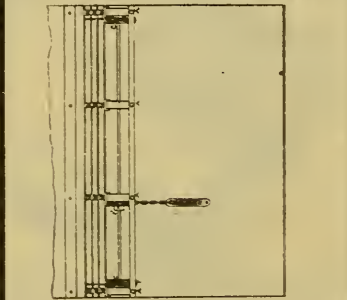


109,000. W. GELLER COMPOSITION FOR PENCILS.

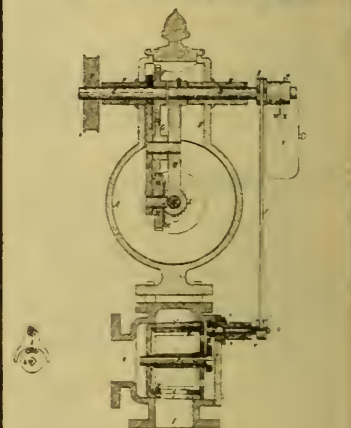


109,001. W. GLASS. LATEROALLY SLIDING THROTTLE VALVE.

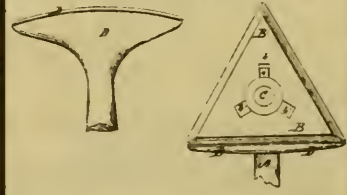
109,007. W. HILDEBRAND AWNING.



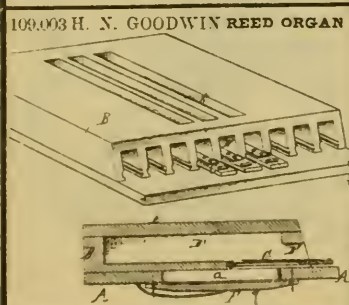
109,013. R. K. HUNTOON GOVERNOR FOR STEAM ENGINE.



109,008. F. B. HILL BOX SCRAPER.

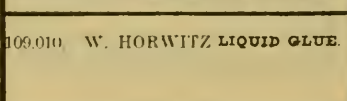


109,002. J. P. GODFREY ROOFING COMPOSITION.

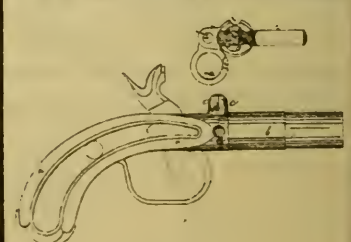


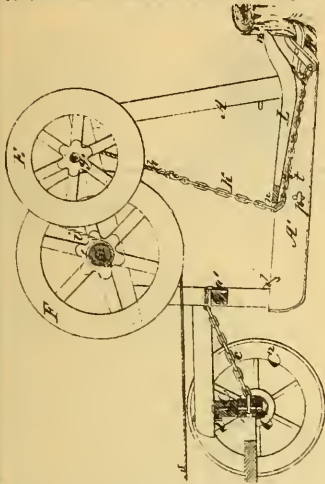
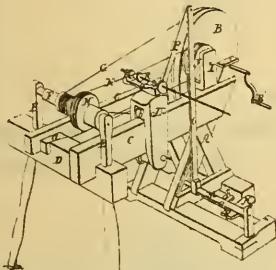
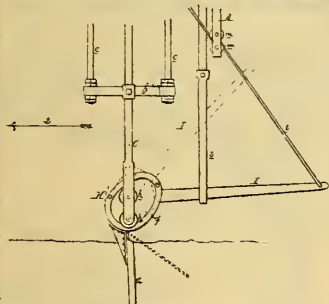
109,003. H. N. GOODWIN REED ORGAN.

109,009. C. E. L. HOLMES PREPARATION OF PEAT.

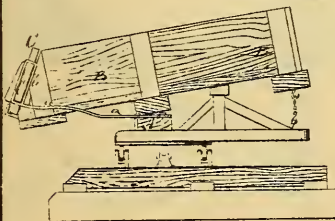


109,014. R. HUTCHISON FIRE CRACKER PISTOL OR HOLDER.

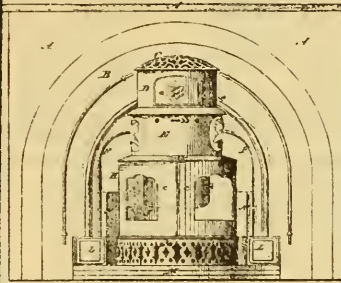
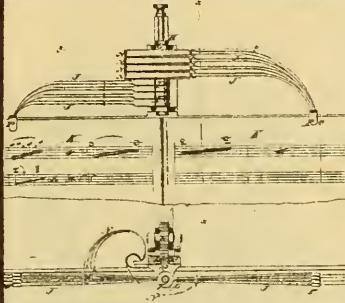
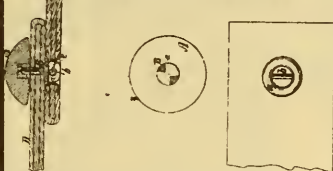
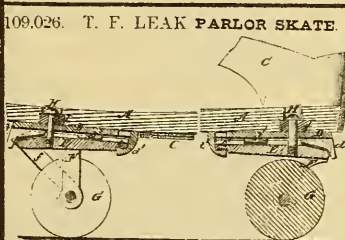
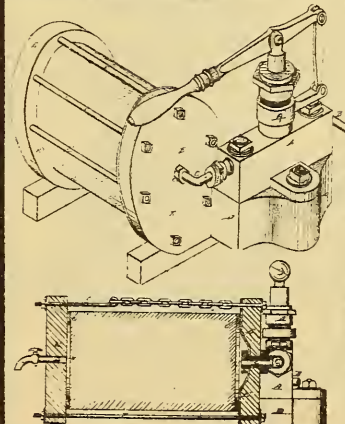
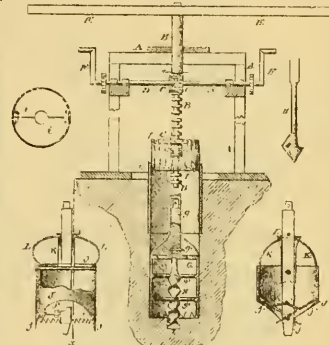
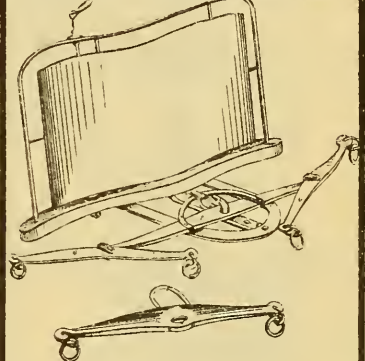
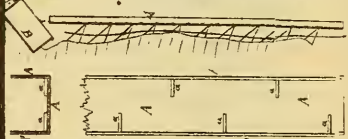
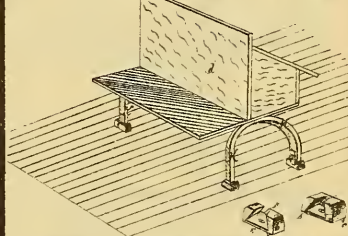
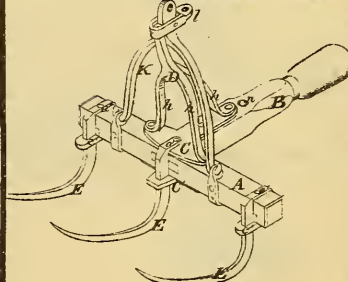


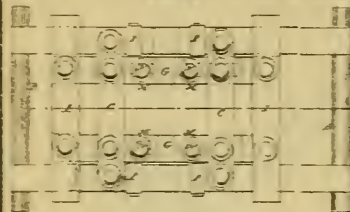
109,015. J. A. JENKINS.
MACHINE FOR EXTRACTING STUMPS.109,016. T. JOHNSTON
SPINNING WHEEL.109,017. J. M. KEEP
COAT AND HAT RACK.109,018. P. J. KELLY.
COMPOSITION FOR COATING BEARINGS109,019. A. L. KENNEDY
DIGGING MACHINE FOR
AGRICULTURAL PURPOSES

109,020. S. D. KING. DUMPING CAR.

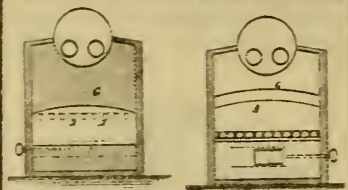
109,021. S. W. KIRK. FLUX FOR
WORKING METALS AND MINERALS.

109,022 P. KLOTZ. FIRE PLACE STOVE

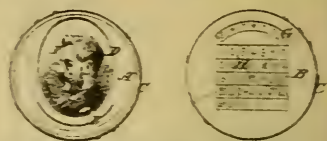
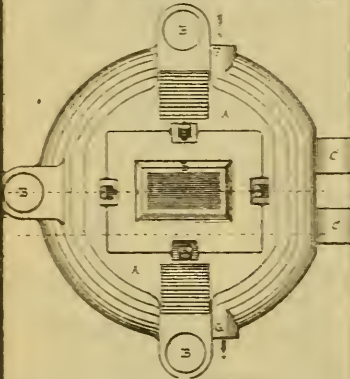
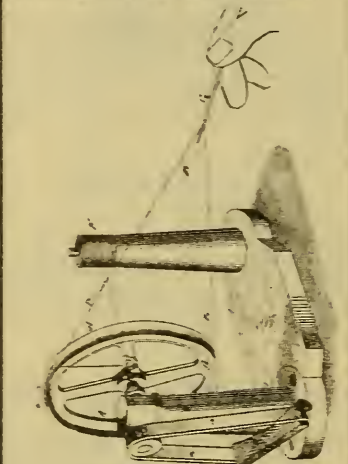
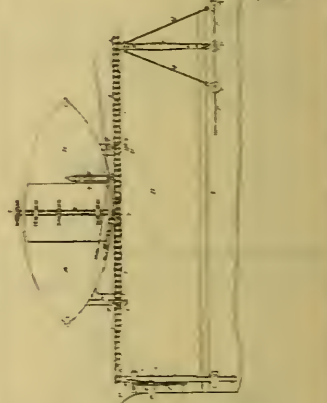
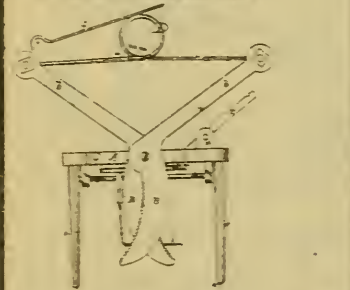
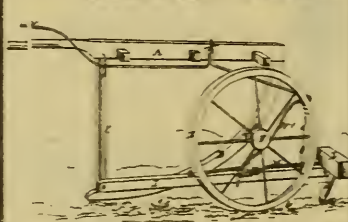
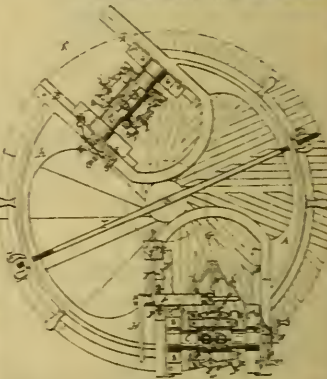
109,023. A. KRAFFT.
MEDIUM FOR TURNING MUSIC SHEETS109,024. F. M. LA BOITEAUX
BUTTON FASTENER.109,025. J. LAMBERT, JR. REMOVING
DYES MADE FROM ANILINE &c.109,027. F. LEAR.
COLORING AND PRESERVING WOOD109,028. N. H. LINDLEY
WELL BORING APPARATUS.109,029 J. F. LOWE DOUBLE AND
SINGLE TREE ATTACHMENT
FOR STREET CARS109,030. D. D. MALLORY
WASHING AND TRANSPORTING SAND109,031. J. D. McAUUFF. DEVICE FOR
FASTENING DESKS, SEATS
&c. TO FLOORS.109,032. W. W. McFADDIN
HORSE HAY FORK

109,033. A. W. McROWN.
SPRING FOR WAGONS.

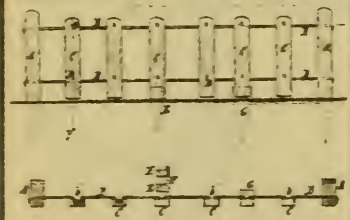
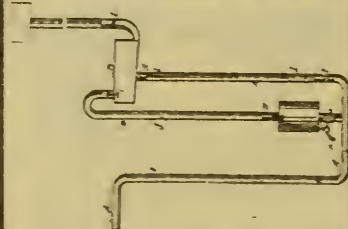
109,034. C. NEAMES. SETTING BOILERS.



109,044. M. ORMSBEE. PIN CUSHION.

109,034. W. MENDHAM AND
C. CHAMBERS. JP. BRICK MACHINE.109,040. H. A. NETTLETON AND
E. R. LAWTON. MACHINE FOR
SCOURING THE EYES OF NEEDLES.109,045. S. W. AND J. F. PALMER.
APPARATUS FOR TOWING CANAL
BOATS.109,035. J. B. MERRIMAN AND
G. B. LEWIS. ANIMAL TRAP.109,041. A. M. NEWLAND. COMBINED
BARROW AND TURNIP-DRILL.109,046. J. PEPLER. MACHINE
FOR DRESSING MILLSTONES.

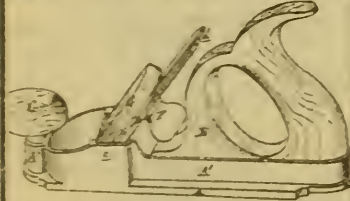
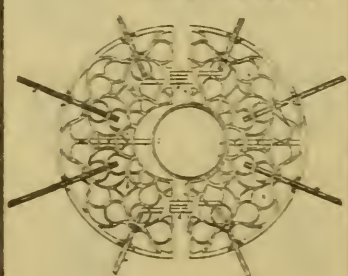
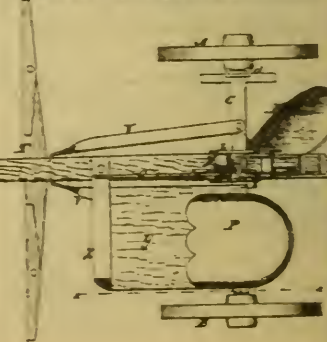
109,036. U. D. MICHILL. FENCE.

109,042. N. NOLAN.
HYDRAULIC APPARATUS.

109,047. C. H. PERKINS. PITMAN.



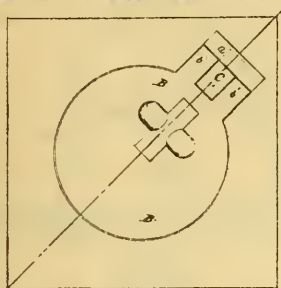
109,037. E. H. MORRIS. PLANE.

109,043. J. O'MALLEY.
STOVE PIPE GRATE.109,048. J. O. POTTER.
DEVICE FOR OPERATING PLOW.

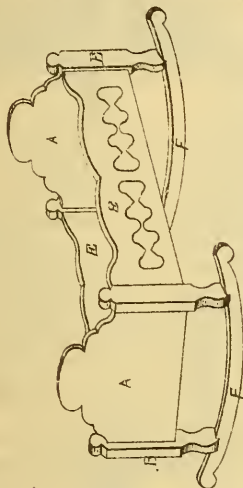
109,038. E. MURRAY. TOOL HANDLE.



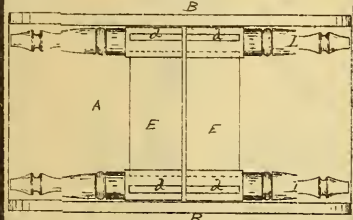
109,049. W. W. PULLIS. TOP OF GAS AND WATER STOP-COCK BOXES.



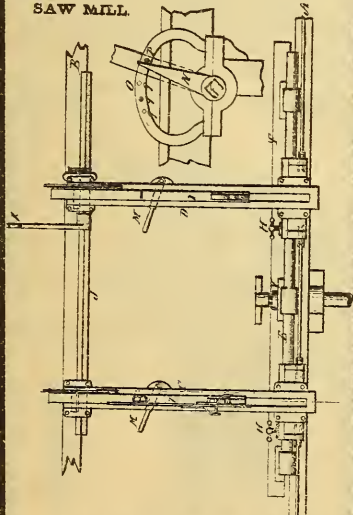
109,050. D. M. REYNOLDS. PORTABLE CRADLE OR CRIB.



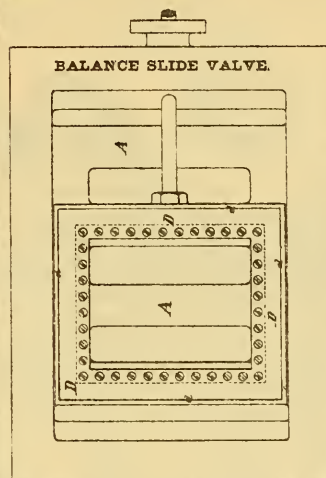
109,051. D. M. REYNOLDS TABLE.



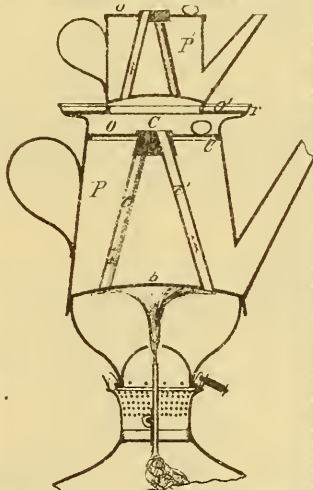
109,052. B. F. AND D. RICHARDSON. SAW MILL.



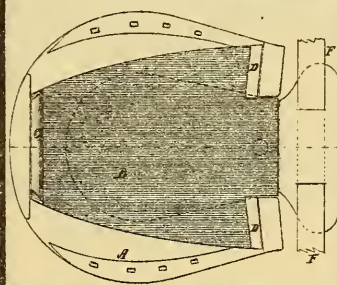
109,053. A. K. RIDER.



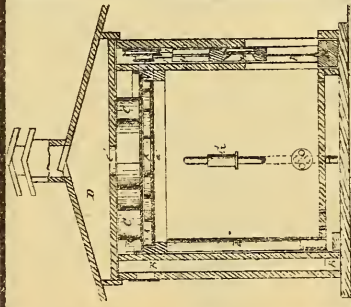
109,054. A. RITTENHOUSE. LAMP HEATING APPARATUS.



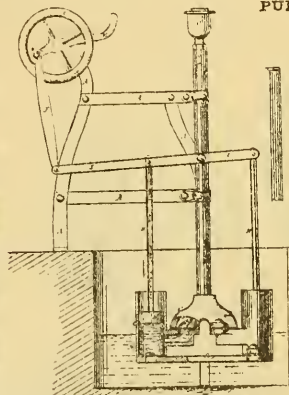
109,055 J. S. ROBERTSON HORSESHOE.



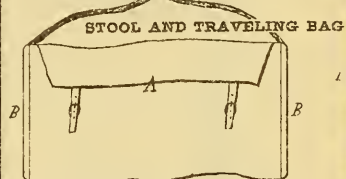
109,056. W. F. ROSS. VENTILATOR.



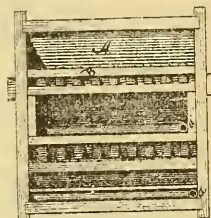
109,057. M. VAN BUREN ROWLEY PUMP.



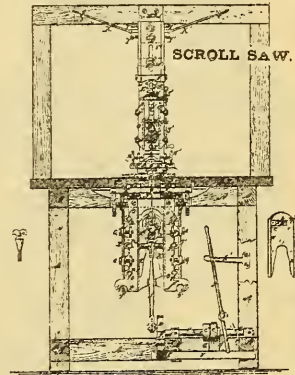
109,058. J. SALISBURY AND B. WILBUR



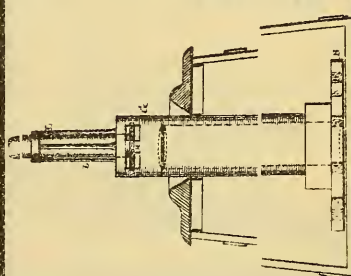
109,059. T. SAMPSON. DYE TUB.



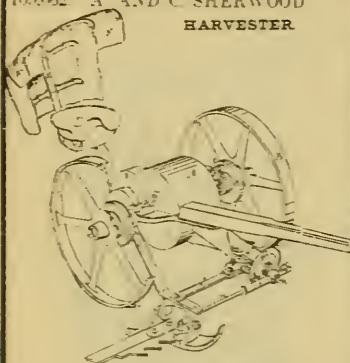
109,060. A. M. SCHILING.



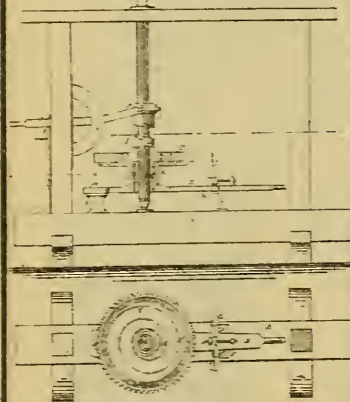
109,061. L. SCOTT. CHURN DASHER.



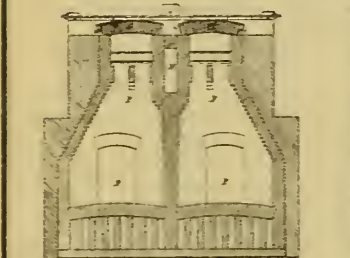
109,062. A. AND C. SHERWOOD
HARVESTER.



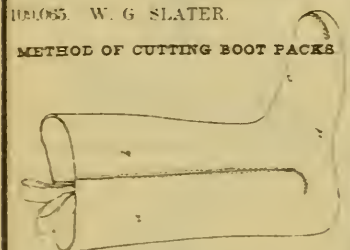
109,063. H. SHOEMAKER AND
J. A. MCCLINTOCK. MILL GEARING.



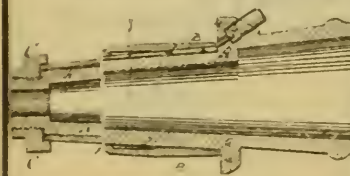
109,064. C. W. SIEMENS.
METALLURGIC GAS FURNACE.



109,065. W. G. SLATER.
METHOD OF CUTTING BOOT PACKS.



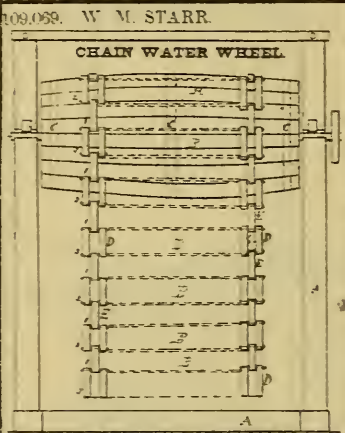
109,066. T. SMART, JR. THIMBLE
SKIN AND BOX FOR VEHICLES.



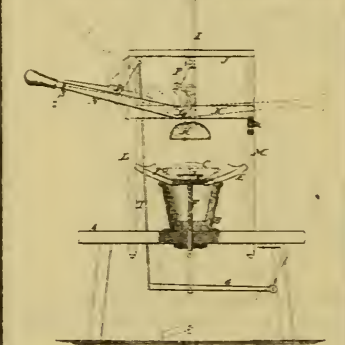
109,067. H. SMITH, JR.
SEWER CATCH BASIN COVER.



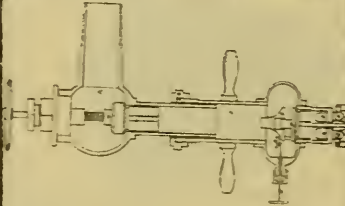
109,068. M. P. SMITH.
DRYING AND PRESERVING APPLES.



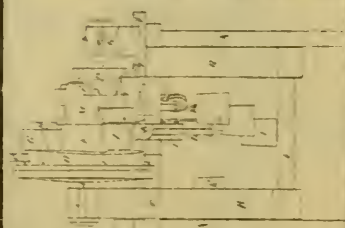
109,070. W. C. STERN AND
J. W. ROBINSON. BUTTER PRINTER.



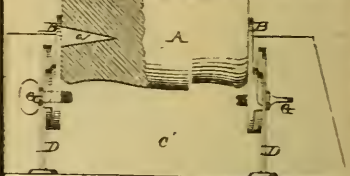
109,071. F. STITZEL. BARREL FILLER.



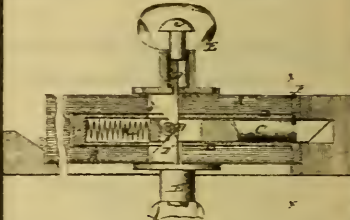
109,072. G. W. STOUT.
HAT FINISHING MACHINE.



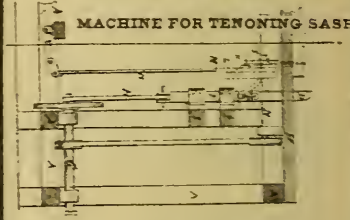
109,073. S. F. STREETER.
CORNER TROWEL.



109,074. A. A. STUART. LATCH.



109,075. G. L. SULLIVAN AND
E. LIPPINCOTT. RELISHING



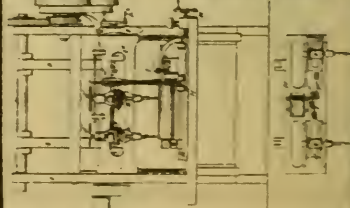
109,076. G. P. SWEEZY.
ADJUSTABLE COAT PATTERN.

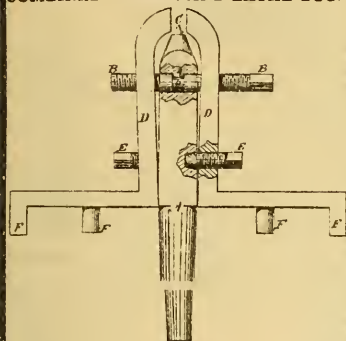
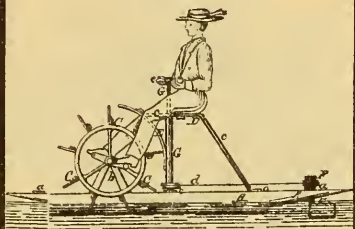
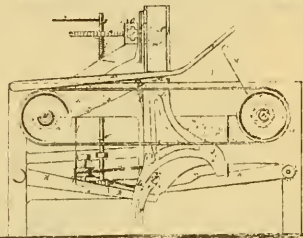
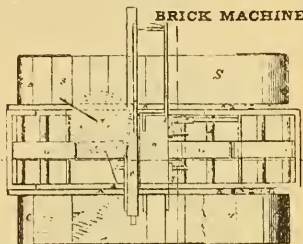


109,077. S. D. TRIPP. MACHINE FOR
LAYING CHANNELS IN
BOOTS AND SHOES.

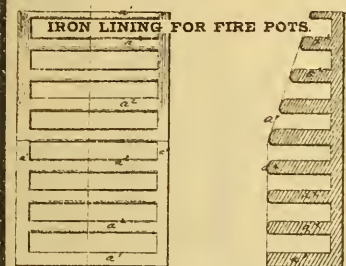


109,078. A. J. TRUXELL.
BORING MACHINE.

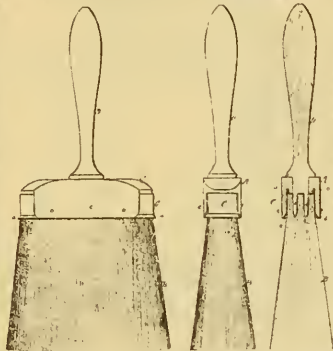
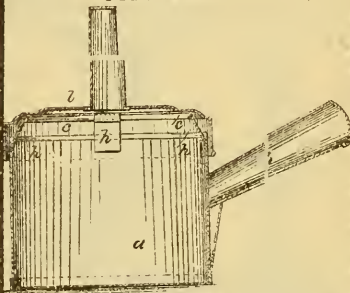
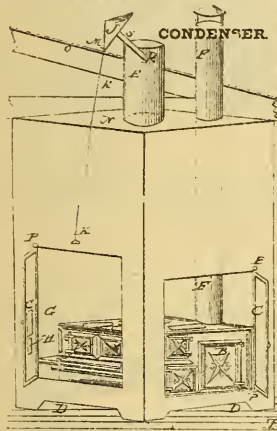


109,079. A. J. TRUXELL.
COMBINED CENTER AND LATHE DOG.109,083. C. O. WEDERKINCH AND
A. STARKWEATHER.
FLOATING VELOCIPED.109,089. J. R. WILLIAMS.
BRICK MACHINE

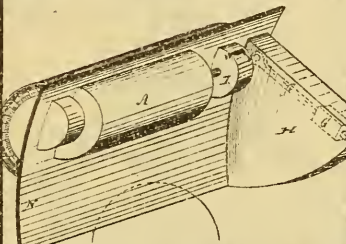
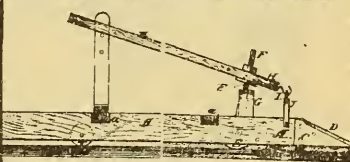
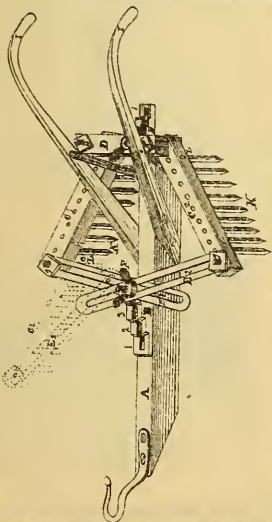
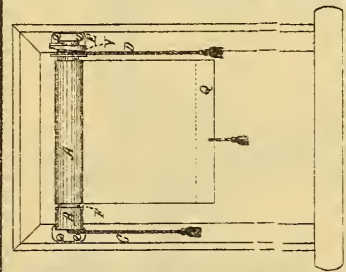
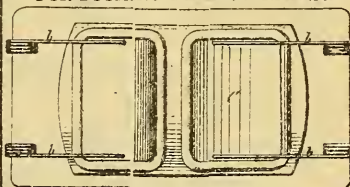
109,080. E. A. TUTTLE



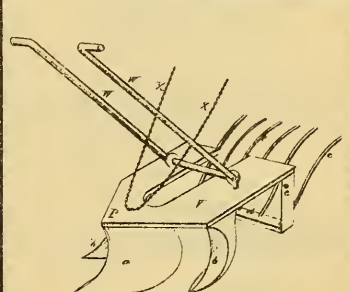
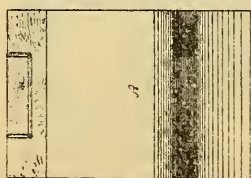
109,084. J. L. WHITING. BRUSH.

109,090. J. J. WILSON
POT FOR GLUE, PAINT, &c.109,081. P. D. VAN DEVENTER.
COOK ROOM REFRIGERATOR AND

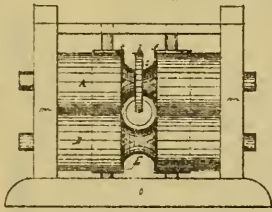
109,085. F. W. WHITNEY PAPER FILE

109,086. I. N. WHITTELSEY.
STEAM GAGE AND SAFETY VALVE109,091. H. A. WINTER
DITCHING AND GRADING MACHINE.109,082. J. T. VAN WYCK
CULTIVATOR RAKE.109,087. J. H. WILHELM.
CURTAIN FIXTURE.109,092. J. WISE. MACHINE
FOR BOOKING TOBACCO LEAVES.

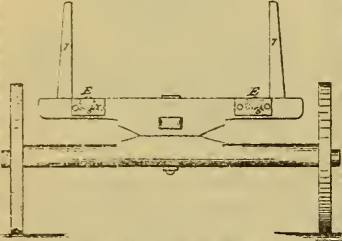
109,093. A. R. WIXOM. POTATO DIGGER.

109,088. I. WILLIAMS.
DEVICE FOR UNLOADING WAGONS.

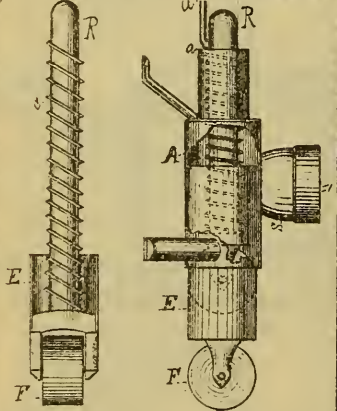
109.094 E. G. WOODWORTH.
J. BRAWDY AND F. MERITHEW.
MACHINE FOR BENDING IRON PIPE
FOR WELDING.



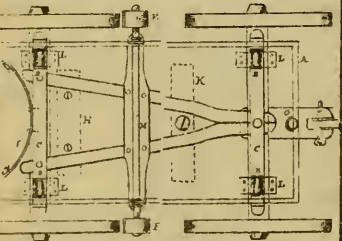
109.095. E. WRIGHT
SPRING FOR VEHICLES.



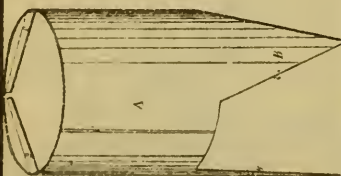
109.096. C. P. YOUNG. DOOR CHECK.



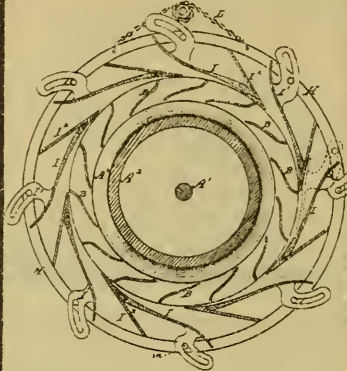
109.097. A. ZINK.
SELF ACTING WAGON BRAKE.



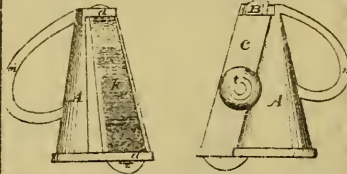
109.098 A. S. ADAMS.
TREE PROTECTOR.



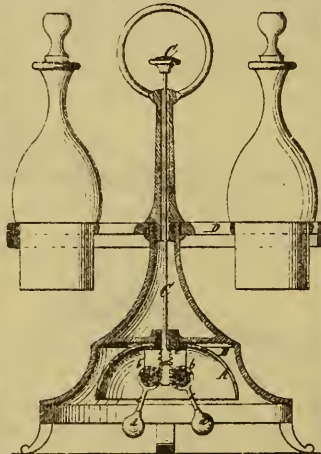
109.099. B. J. BARBER WATER WHEEL



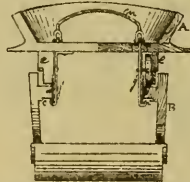
109.100. A. G. BATCHELDER
PENCIL SHARPENER



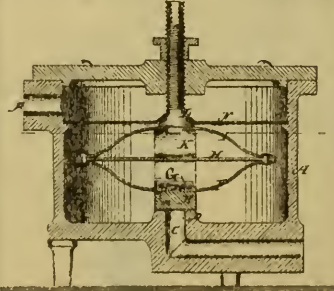
109.101. F. A. BLATTERLIEN
CALL BELL AND CASTER STAND



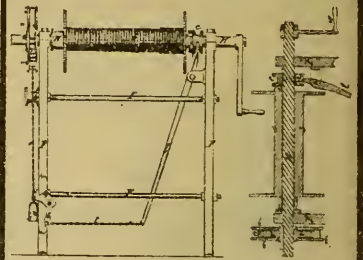
109.102. S. W. BEACH. CLAMPING
MOVABLE SEATS FOR CARRIAGES.



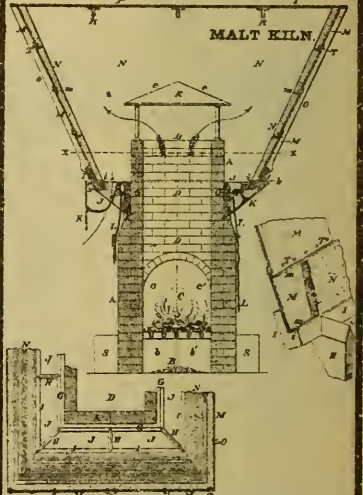
109.103. W. H. BECHTEL STEAM TRAP



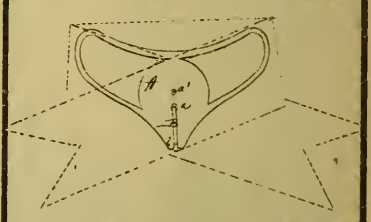
109.104. C. T. BELBIN
OYSTER DREDGE WINDER



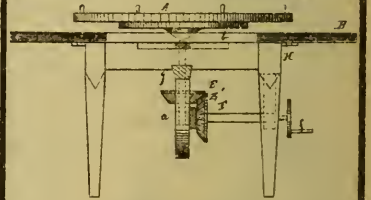
109.105. C. P. BEREKHEMER.



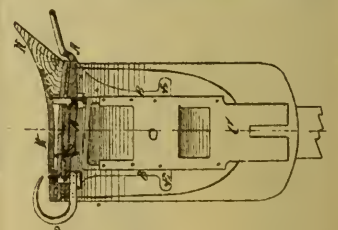
109.106. G. W. BISHOP.
NECK TIE FASTENING



109.107. D. BOARDMAN.
DINING TABLE.

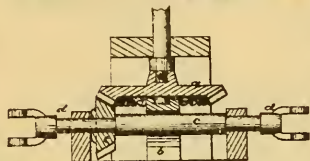
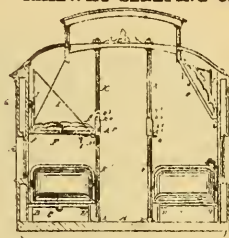
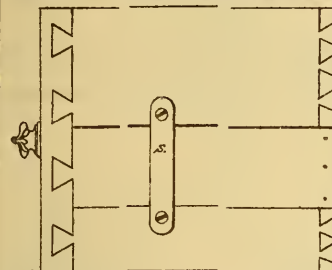
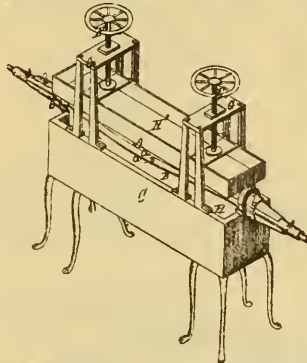
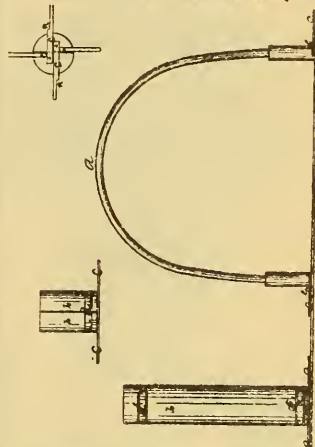
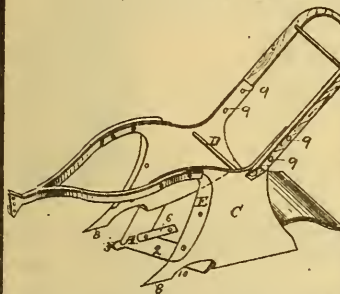
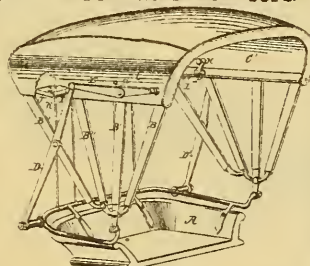


109.108. V. BORST. HARNESS SADDLE.

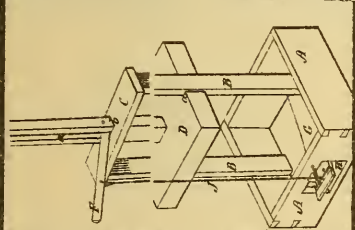
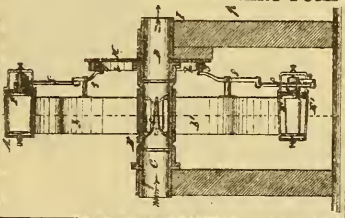


109.109. P. G. BRYAN. TRANSPOSING
SCALE FOR TEACHING MUSIC.

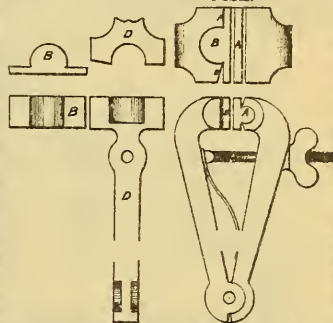
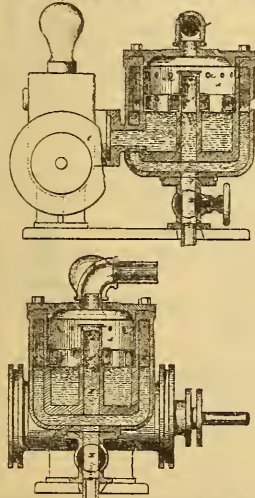
109.114 R. W. CROUSE HORSE POWER

109.119. J. S. DU BOIS
RAILWAY SLEEPING CAR.109.110. L. BURNELL.
DRAWER FOR CABINET FURNITURE.109.115. J. CUNNINGHAM APPARATUS
FOR FITTING AND SETTING AXLES.109.120. A. P. EASTMAN.
APPARATUS FOR PARLOR CROQUET.109.111. L. COCHRAN
POTATO DIGGING MACHINE.109.116. A. DOM SUPPORTING
PROP FOR FOLDING BUGGY TOPS.

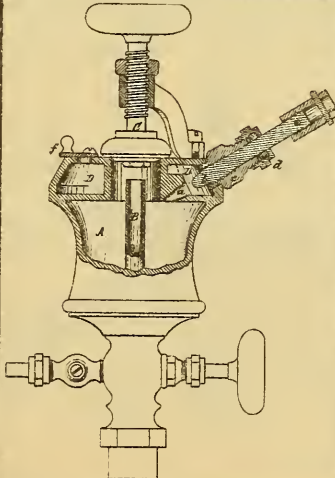
109.112 J. COSOLOWSKY ANIMAL TRAP

109.117 J. DOYLE AND T. A. MARTIN
ROTARY PUMP

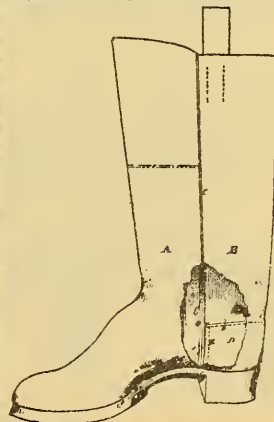
109.121. J. FINDLAY. VISE.

109.113. W. CRAIG AND
H. L. BREVOORT
CONDENSER FOR STEAM PUMPS.

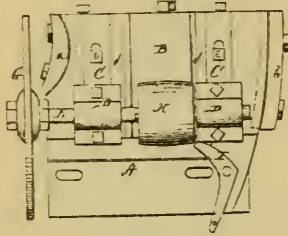
109.118. I. DREYFUS. LUBRICATOR.



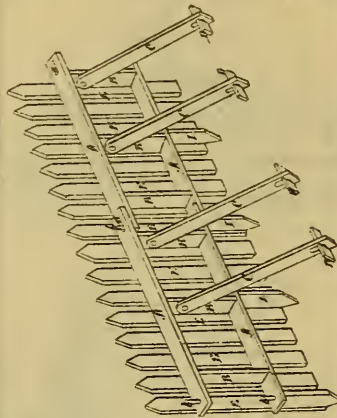
109.122. C. H. FITCH. BOOT.



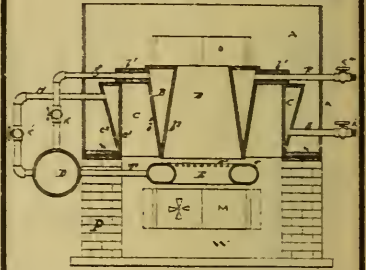
109,123. C. S. GRIFFIN AND
J. W. WILKINS.
DOVETAILING MACHINE.



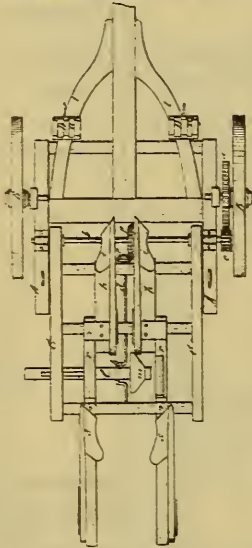
109,127. C. N. HITCHCOCK AND
H. P. T. WILSON FENCE.



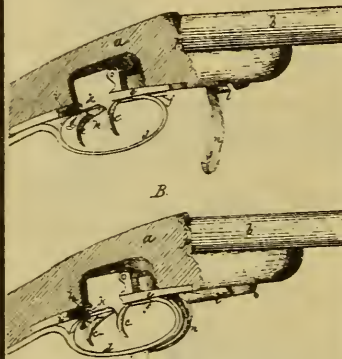
109,131. I. KENDRICK
BURNING HYDROCARBON



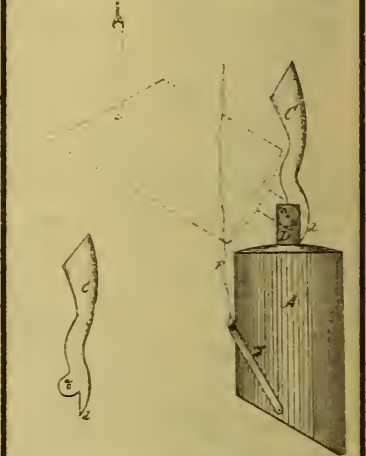
109,124. N. M. HALE.
COTTON SCRAPER AND CHOPPER



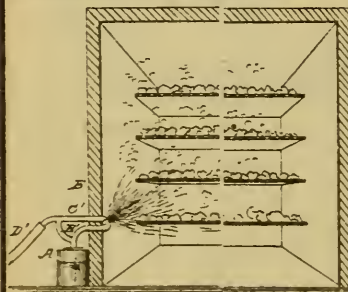
109,128. C. B. HOLDEN GUN LOCK



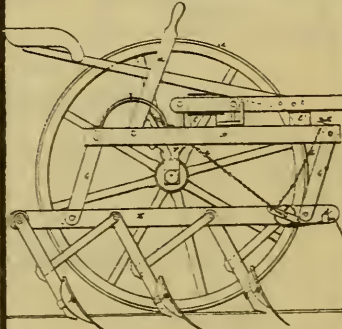
109,132. O. P. KNIFFIN
EXCAVATING SCOOP.



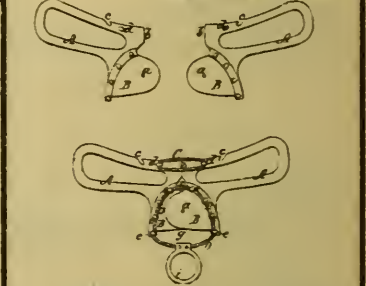
109,125. R. F. HATFIELD.
MANUFACTURE OF WHITE LEAD.



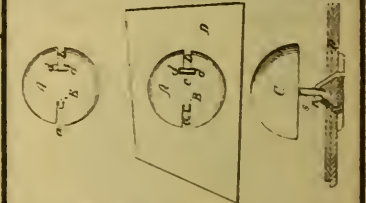
109,129. H. HOWE CULTIVATOR



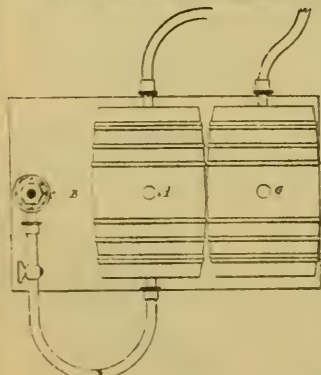
109,133. H. LAURENCE
NECKTIE RETAINER.



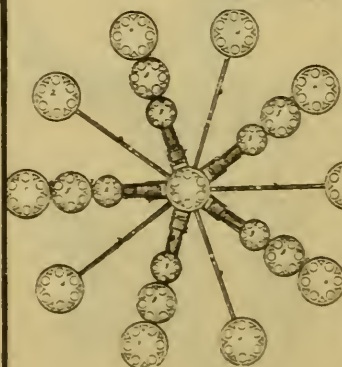
109,134. E. F. LEE
BUTTON FASTENING



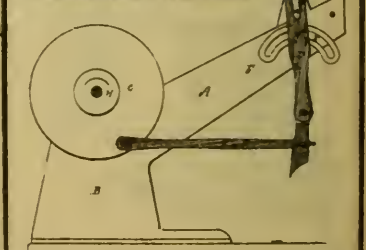
109,126. C. E. HAYNES. PRESERVING
BEER AND ALE ON DRAUGHT.



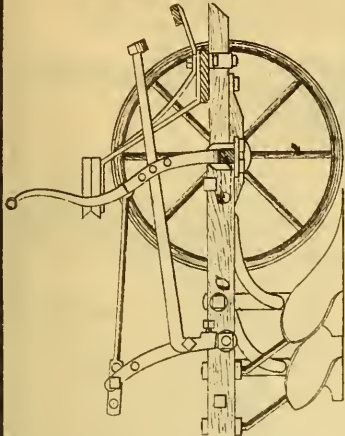
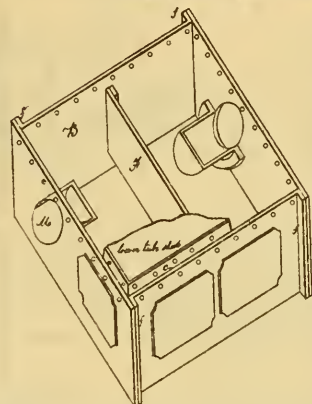
109,130. H. H. KENDRICK
FLOWER STAND.



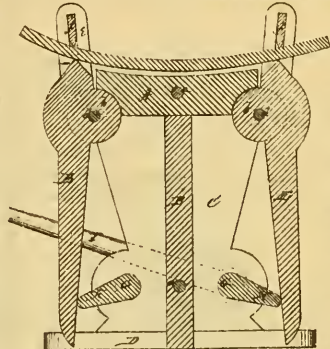
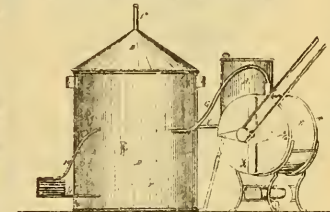
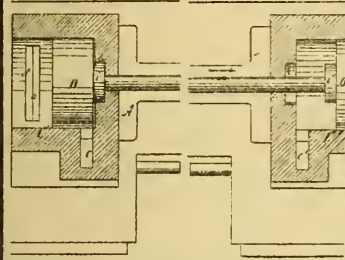
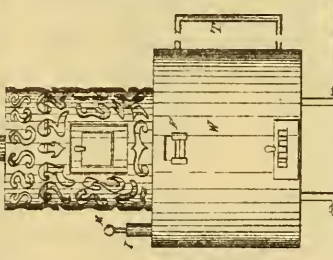
109,135. P. LENNOX
HIDE BEAMING MACHINE



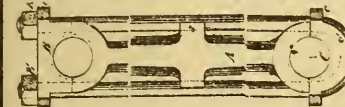
109,136. W. MASON. GANG PLOW.

109,142. P. MUNZINGER
CONDENSER FOR GAS WORKS

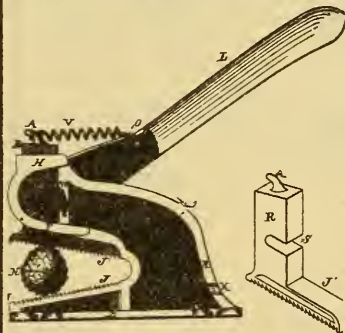
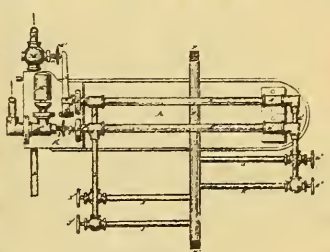
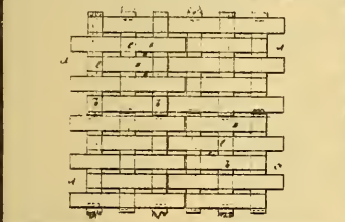
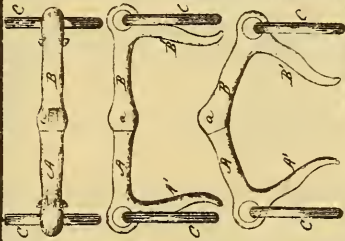
109,147. C. S. SHERK TIRE SHRINKER

109,148. J. D. SPANG
APPARATUS FOR CARBURETING AIR109,137. T. MAY.
VARIABLE CUT-OFF APPARATUS.109,143. J. OLIPHANT
RAILROAD CAR STOVE.

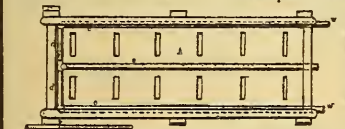
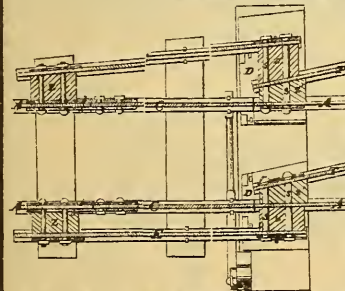
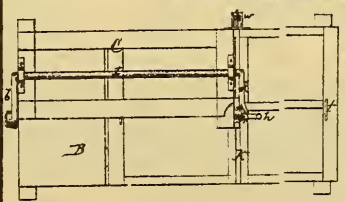
109,138. J. H. MCGOWAN. PITMAN.



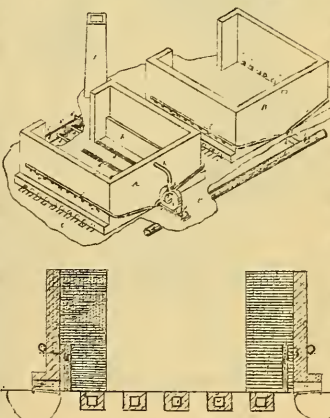
109,144. J. PUSEY NUT CRACKER

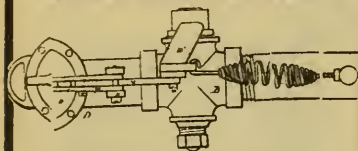
109,149. J. L. STARKEY. BOILER
FEEDER AND LOW WATER DETECTOR109,139. D. McKENZIE.
WOOD PAVEMENT.109,145. B. S. ROBERTS
BIT FOR HARNESS.

109,140. H. W. MILLAR. CHEESE VAT

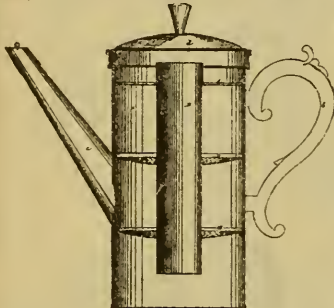
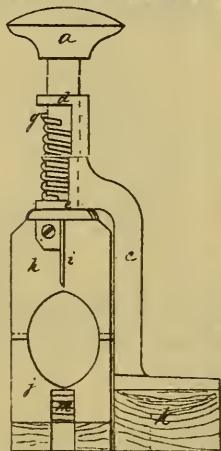
109,141. J. MINER AND S. MERRICK
RAILWAY SWITCH.109,146. D. S. SHANABROOK.
SAWING MACHINE.

109,150. E. C. STERLING BRICK KILN.

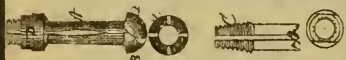
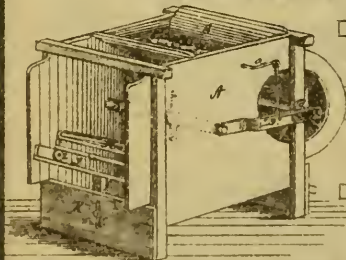
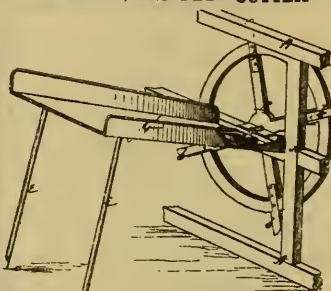
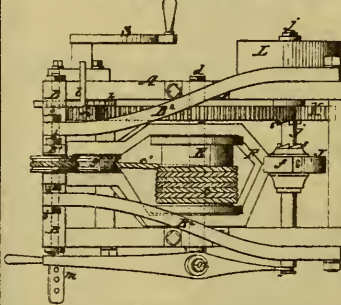
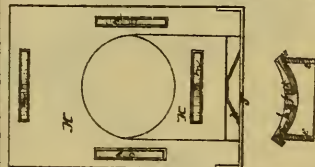


109,151. J. L. STEWART
MACHINE FOR FILLING BARRELS.

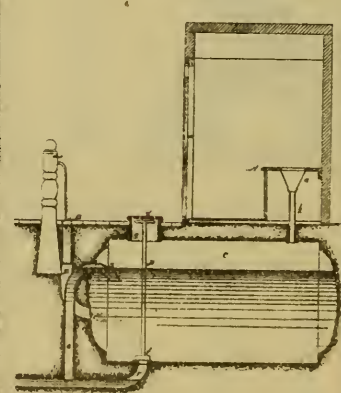
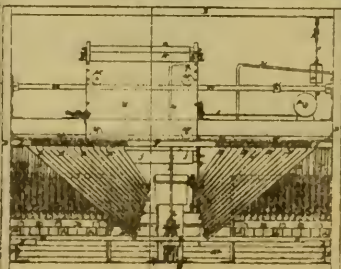
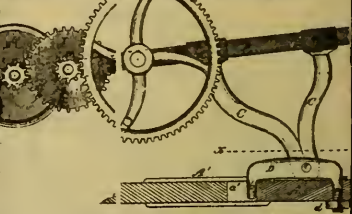
109,152. J. F. STILL. COFFEE POT.

109,153. L. S. STIMSON, dec'd.
H. N. STIMSON administratrix.
CIGAR CUTTING MACHINE.

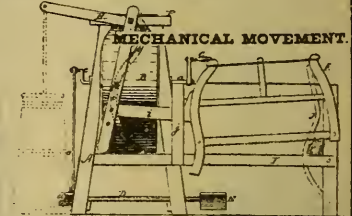
109,154. D. F. SUTTON COUNTERSINK.

109,155. F. SWIFT AND M. STANDISH
GRAIN SEPARATOR.109,156. B. VAN CAMPEN TAYLOR
GARMENT HOLDER.109,157. T. THOMASSON CORN HULLER,
SHELLER, AND FEED CUTTER.109,158. N. TUCKER, L. WILLIAMS
AND H. H. COPPOCK.
ROCK DRILLING MACHINE.109,159. E. VON JEINSEN
JOURNAL BOX FOR CARS.

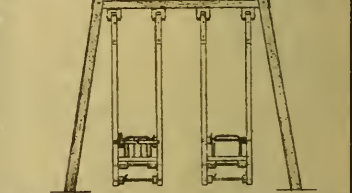
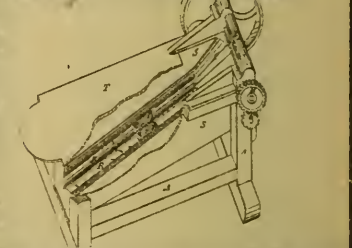
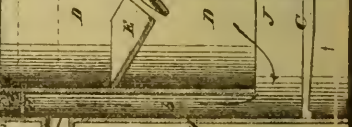
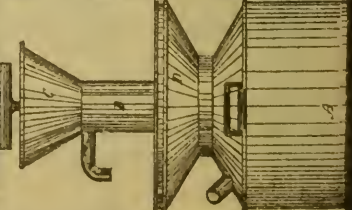
109,160. W. J. WARREN PRIVY.

109,161. C. A. WASHBURN
TYPE WRITING MACHINE.109,162. D. F. WELSH
APPARATUS FOR GRINDING THE
KNIVES OF MOWING MACHINES.

109,163. J. H. WHITNEY.

109,164. J. H. WHITNEY
STOP MOTION GEAR WHEEL.

109,165. L. WINSTON SWING.

4,174. L. A. ASPINWALL
MACHINE FOR HUSKING CORN.4,175. S. H. LA RUE.
HEATING STOVE.4,176. E. F. WILDER
DRIP FILTERING OIL FOUNTAIN.

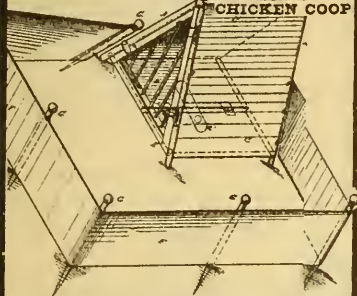
ILLUSTRATIONS OF PATENTS

ISSUED FROM

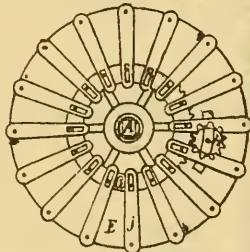
THE UNITED STATES PATENT OFFICE

NOVEMBER 15, 1870.

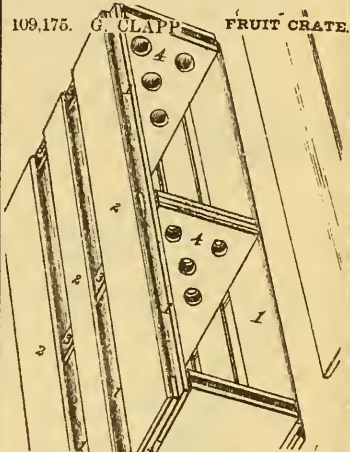
109,166. J. R. ACHENBACH. CHICKEN COOP.



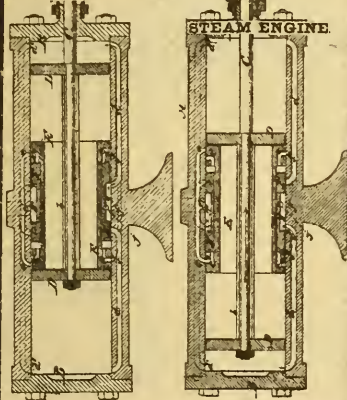
109,170. W. BLAKE WATER WHEEL.



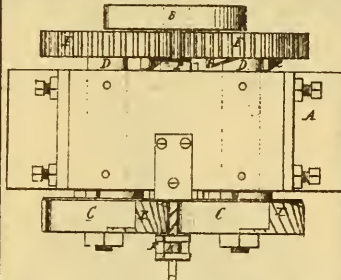
109,175. G. CLAPP. FRUIT CRATE.



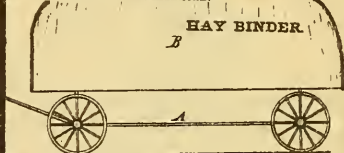
109,167. H. F. AMBOS.



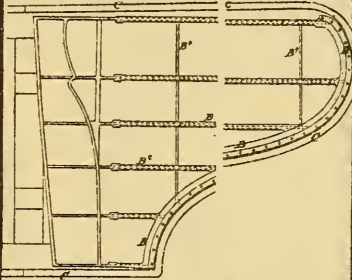
109,171. R. BOEKLEN MACHINE FOR MAKING SCREWS AND SCREW NAILS.



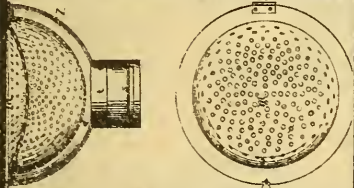
109,176. A. R. CLARK. HAY BINDER.



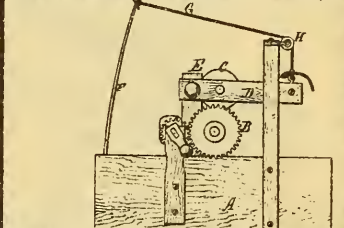
109,172. O. BULL. PIANO.



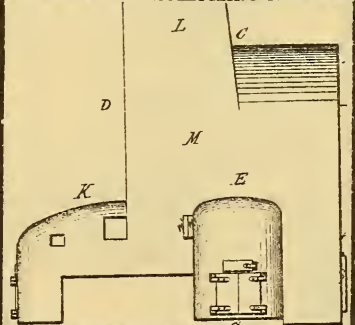
109,168. M. AUGENSTEIN. TESTING INSTRUMENT FOR BREWERS AND DISTILLERS.



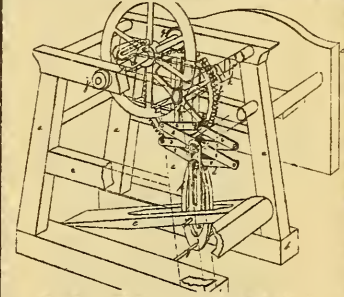
109,177. J. E. CLARKE. APPARATUS FOR BLEACHING THREADS, YARNS, &c.



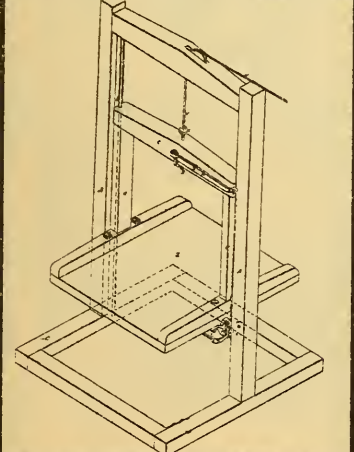
109,173. A. H. BRAINERD. FURNACE FOR DEOXIDIZING IRON ORE.



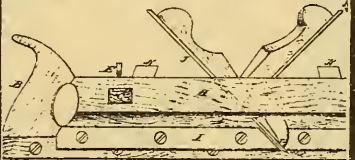
109,178. J. C. CLINE SAWING MACHINE.



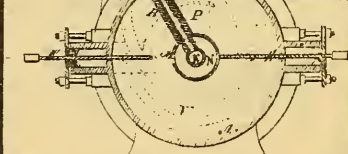
109,169. C. W. BALDWIN. ELEVATOR.

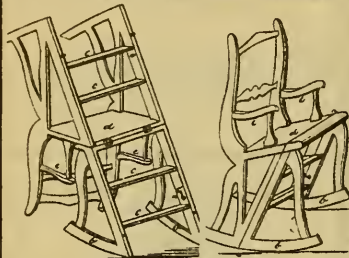


109,174. L. BUNDY PLANE.

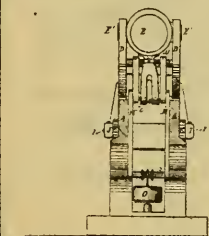
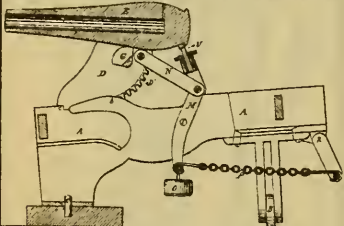
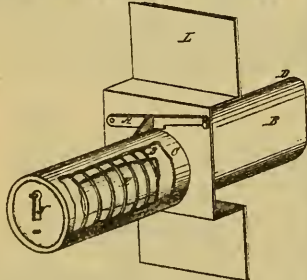
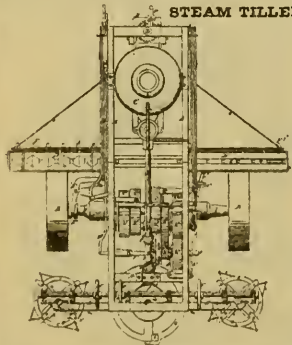


109,179. J. CONSTANTINE. ROTARY ENGINE.

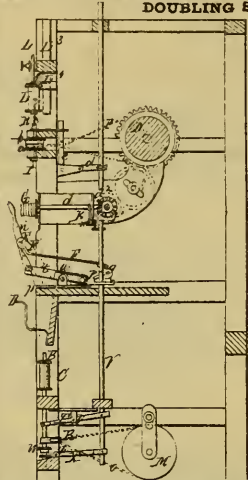
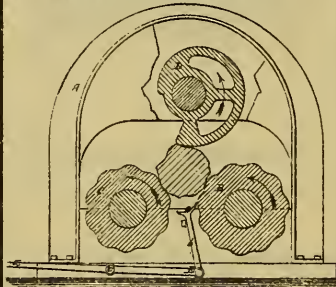
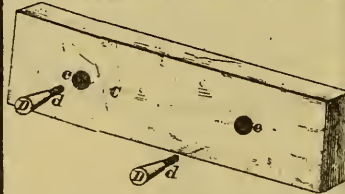


109,180. W. H. COOK
ROCKING CHAIR AND STEP LADDER.

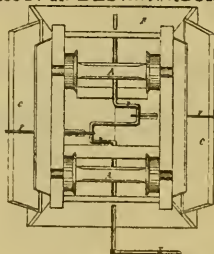
109,181. T. COUGHLIN. GUN CARRIAGE.

109,182. A. W. CRAM
LOCK FOR RAILROAD SWITCHES.109,183. R. CREUZBAUR.
STEAM TILLER.

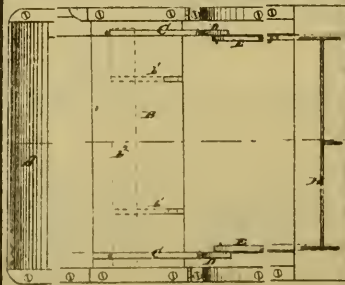
109,184. A. M. CUSHING. SHEAVE.

109,185. T. N. DALE, JR., AND G. KRAINK.
MACHINE FOR SPINNING AND
DOUBLING SILK, &c.109,186. S. DANKS. MACHINE FOR
SQUEEZING PUDDLERS' BALLS.109,187. W. C. DAVIS
OVEN PLATE FOR COOKING STOVES.

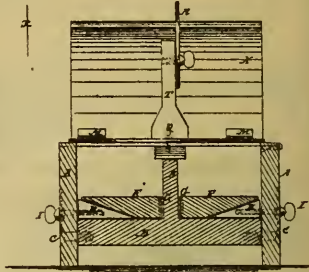
109,188. P. K. DEDERICK. DUMPING CAR.



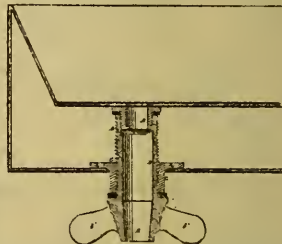
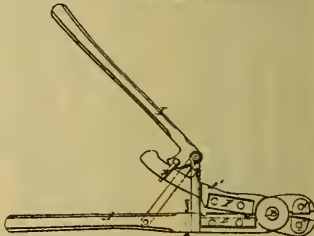
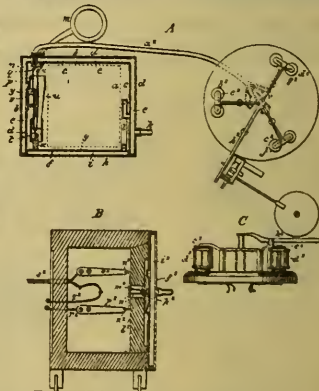
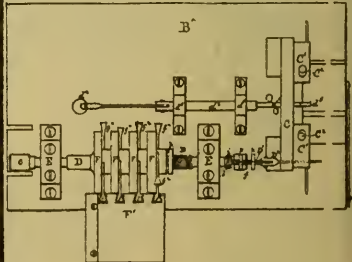
109,189. C. N. DENNETT. CARRIAGE.



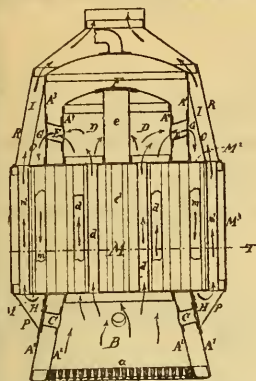
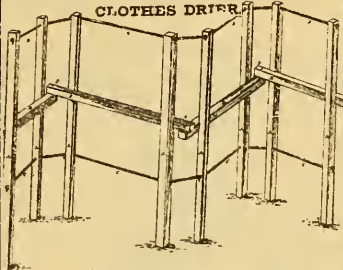
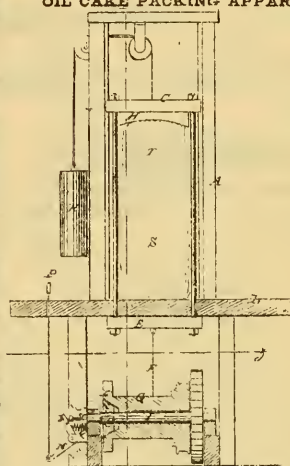
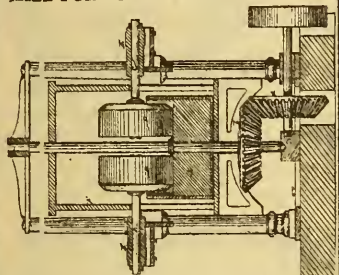
109,190. J. DEVOGE. MITER BOX.



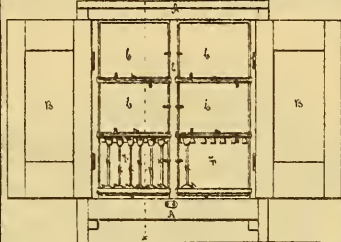
109,191. C. A. DOUGLAS. FAUCET.

109,192. I. DUBOIS. DEVICE FOR
CUTTING AND SHEARING METAL.109,193. W. DUNCAN AND
C. C. ROWELL. ELECTRO MAGNETIC
APPARATUS FOR PROTECTING SAFES.109,194. J. P. FLANDERS
DOVETAILING MACHINE.

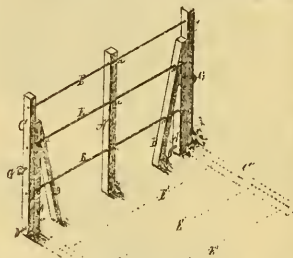
109.195. D. FLYNN. STEAM BOILER.

109.200. J. AND W. GNAU
CLOTHES DRIERS109.206. W. HAWES
OIL CAKE PACKING APPARATUS109.196. H. D. GARRISON
MILL FOR POWDERING ROOTS, &c

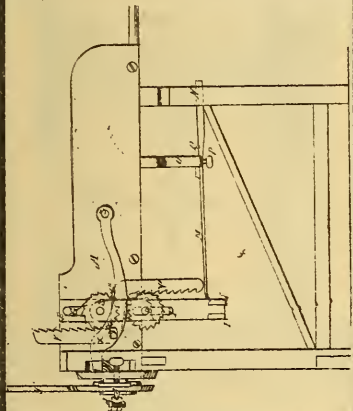
109.201. L. L. GOODWIN BEE HIVE.



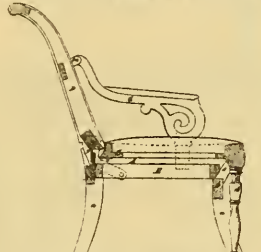
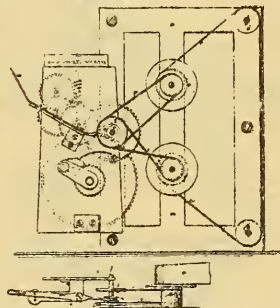
109.207 W. M. HEATH GRAPE TRELLIS.



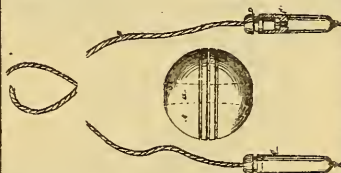
109.197. G. S. GARTH STRAW CUTTER



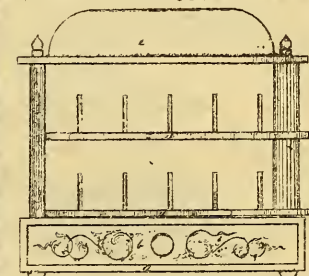
109.202 E. HAGAN CHAIR AND LOUNGE

109.208. W. HEDDON
ADVERTISING APPARATUS.109.203. H. H. HANMER
HORSE AND CATTLE LINIMENT

109.204. G. HARTZ TOY BALL

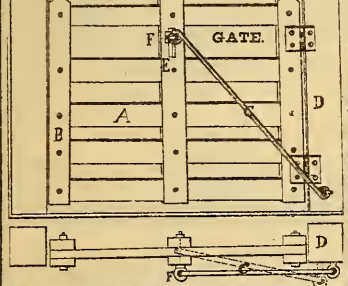
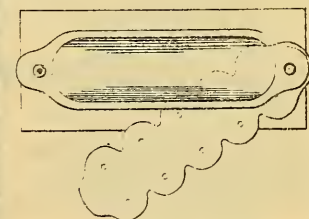
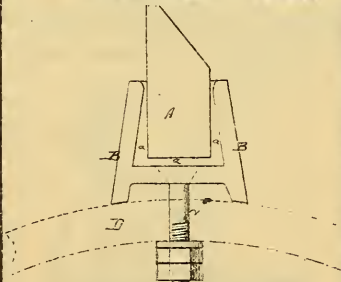


109.209 E. C. HEYWOOD SPOOL STAND.

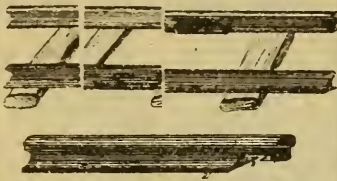


109.198

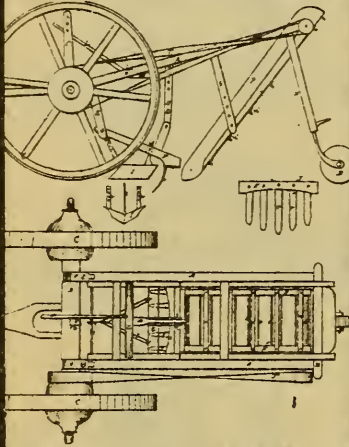
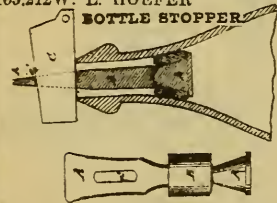
W. GAUSE AND J. C. CURRYER

109.199. C. GILPIN
FEED ROLL FOR ROSSING MACHINES109.205. H. C. HAVEMEYER AND
D. P. BURDON ATTACHING DICING
STONES TO WHEELS
FOR POLISHING LEATHER.

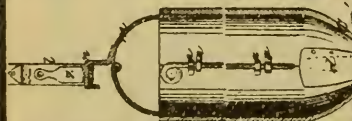
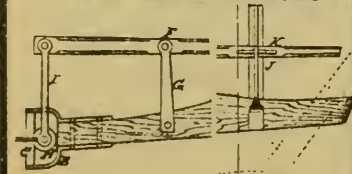
109,210 N. HILL RAILWAY RAIL JOINT.



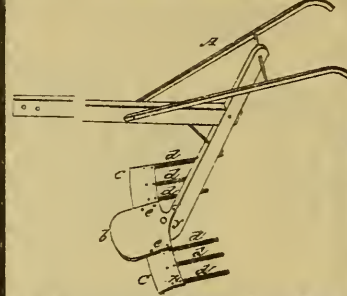
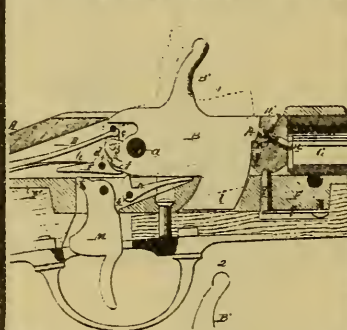
109,211 G. M. HOAG POTATO DIGGER.

109,212 W. L. HOEFER
BOTTLE STOPPER.109,213 C. W. HOLBROOK AND
E. F. BUTLER.

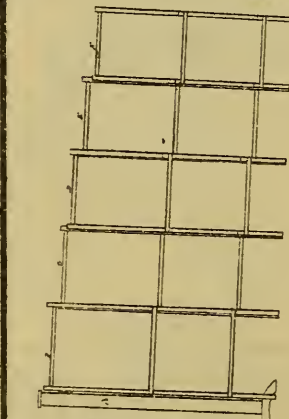
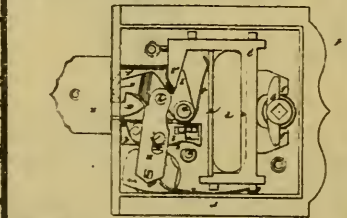
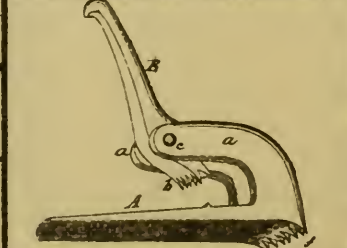
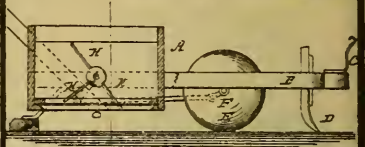
PORTABLE BOOK CLAMP.

109,214 J. AND T. J. INGLES
WELL AUGER.109,215 C. L. JACKSON ADJUSTABLE
DRAFT DEVICE FOR PLOWS.109,216 A. J. JENKINS.
MEDICAL COMPOUND FOR CURE OF
RHEUMATISM.

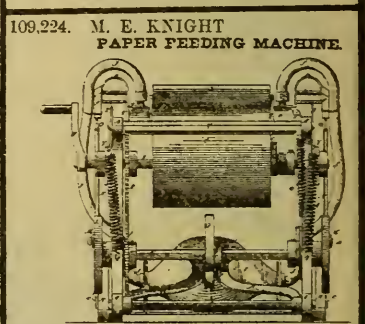
109,217 W. JOSEPH POTATO DIGGER.

109,218 B. F. JOSLYN
BREECH LOADING FIRE ARM.

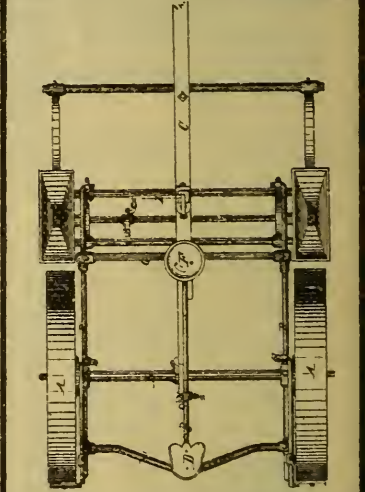
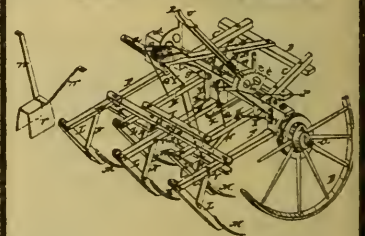
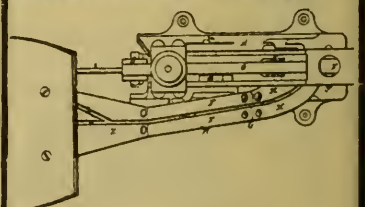
109,219 J. KASPAR CLOTHES DRIER.

109,220 E. J. KEHOE COMBINED LOCK
AND LATCH FOR SLIDING DOORS.109,221 J. R. KENNETT
SCAFFOLD BRACKET FOR ROOFING.109,222 J. C. KING
COTTON SEED PLANTER.

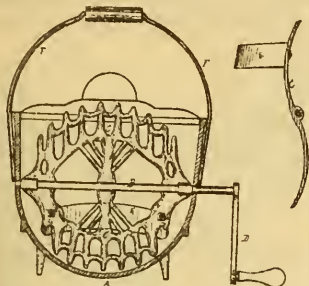
109,223 SUSPENDED.



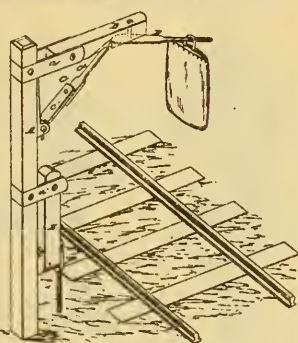
109,225 H. KOELLER CORN PLANTER.

109,226 L. LEHMANN COMBINED
AGRICULTURAL IMPLEMENT109,227 J. H. LEWIS MACHINE FOR
ATTACHING STUDS OR TUBULAR
SHANKED BUTTONS TO FABRICS.

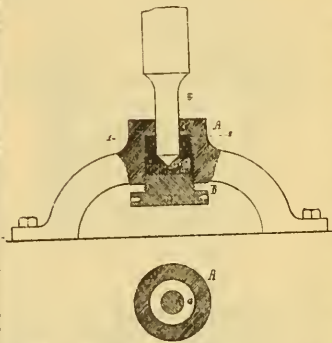
109,228. N. LINDEN COFFEE ROASTER.



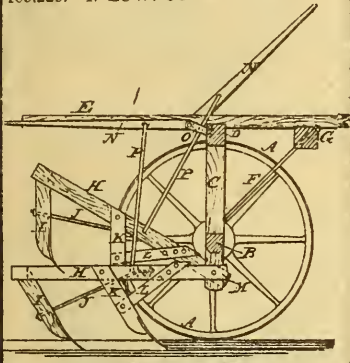
109,233. J. B. McLAIN DEVICE FOR DELIVERING MAIL BAGS TO CARS.



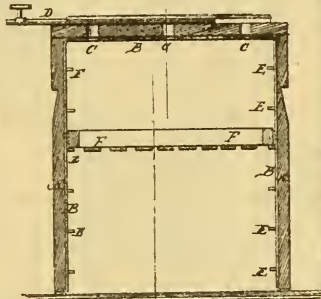
109,238. E. D. MURFEY SPINDLE STEP.



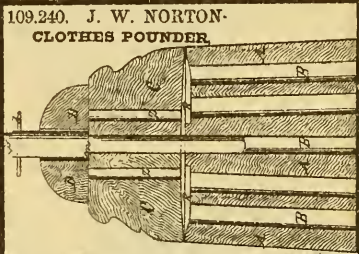
109,229. I. LOW. CULTIVATOR.



109,234. J. P. MILLER. DRIER.

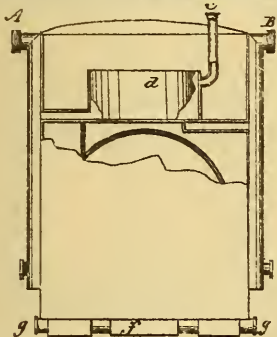


109,239. E. D. MURFEY MATERIAL FOR BEARINGS AND JOURNALS.

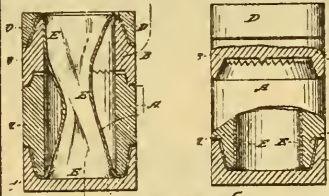


109,240. J. W. NORTON. CLOTHES POUNDER.

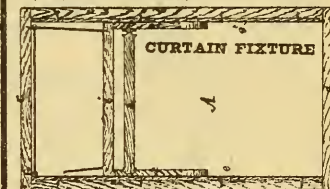
109,230. G. LOWEN AND S. H. GOLDTHORP DRY GAS METER.



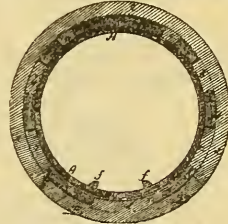
109,235. J. MONAGHAN MATCH BOX.



109,241 J. L. OLIVER

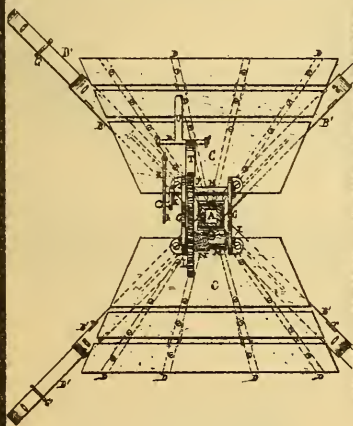


109,242. W. ORD. PISTON PACKING.

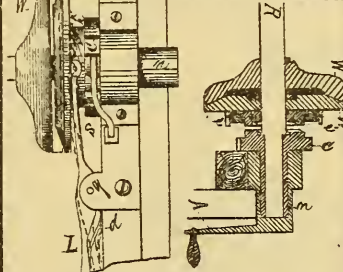


109,231 P. M. MCGILL ARTIFICIAL FUEL.

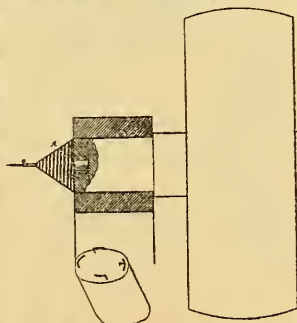
109,232. G. MCKENZIE. ELEVATOR.



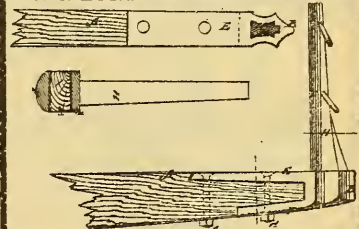
109,236. A. A. MOULTON WATER ELEVATOR.



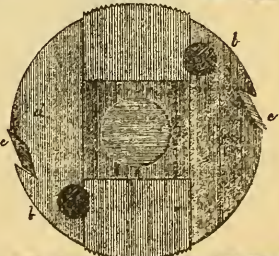
109,237. E. D. MURFEY MODE OF PREVENTING THE HEATING OF AXLES OR JOURNALS.

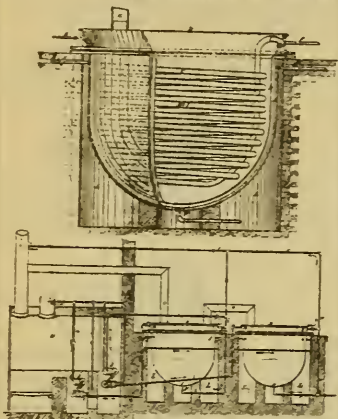


109,243. J. W. PEARMAN AND J. F. C. LUTZ BOLSTER FOR WAGONS.



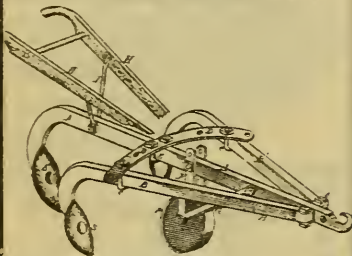
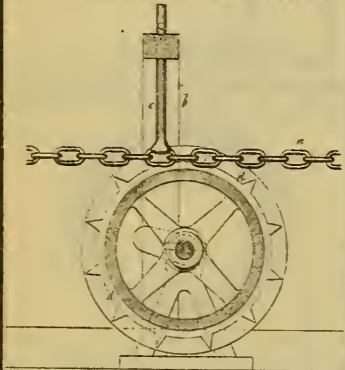
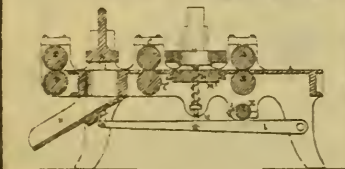
109,244. D. W. PERRY CUTTER HEAD.



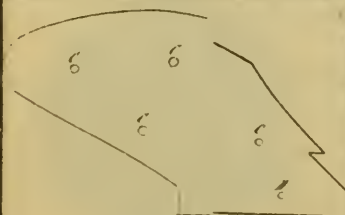
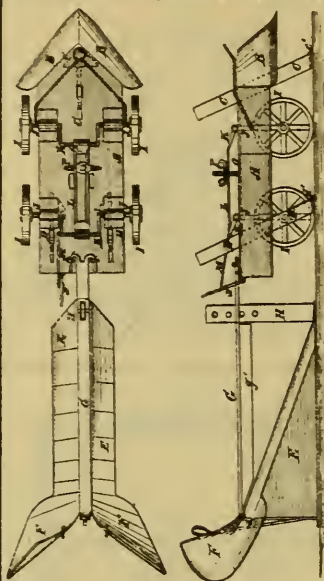
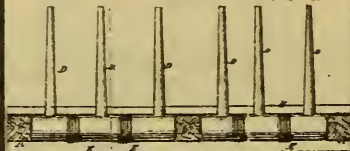
109,245. J. B. POLLOCK.
MANUFACTURE OF VARNISH.

109,246. O. PORTER ROOFING CEMENT.

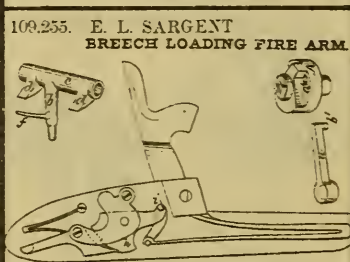
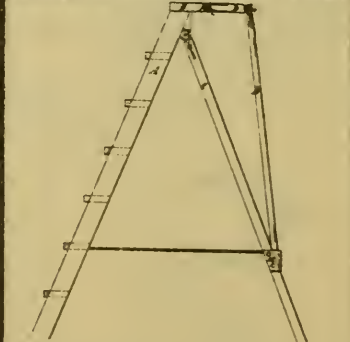
109,247. J. REBMAN CULTIVATOR.

109,248. J. REID
PROPELLING CANAL BOATS.109,249. I. L. G. RICE
PAPER CUTTING MACHINE.

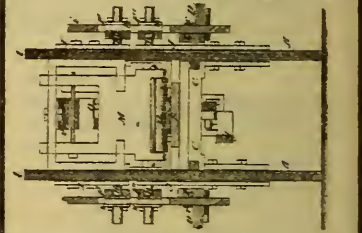
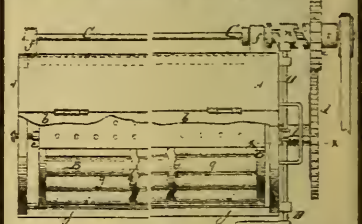
109,250. L. W. RICHARDSON. PLOW.

109,251. J. W. ROBERTS
DITCHING MACHINE.109,252. S. ROWLAND AND
T. C. TIPTON FLOOD GATE.

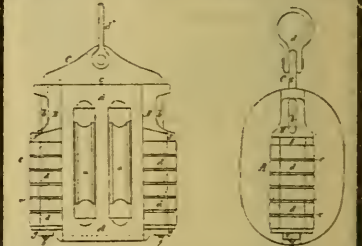
109,253. W. W. RUSSELL PAPER FILE.

109,254. A. RUTKAY
ROOFING COMPOSITION.109,256. G. A. SCHACHTEL
EXTENSION PLATFORM STEP LADDER.

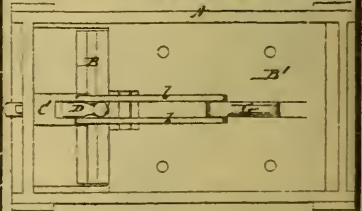
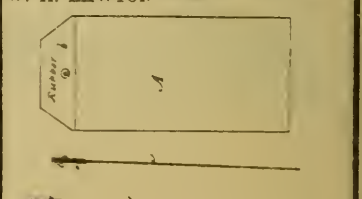
109,257. F. SCHIFFERLE. FOUNTAIN PEN.

109,258. C. SHELLEDINE
SHINGLE MACHINE.109,259. H. E. SMITH AND
G. F. SPEER WASHING MACHINE.

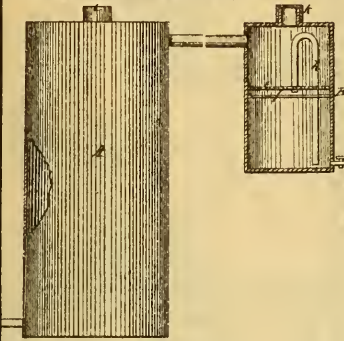
109,260. R. J. SMITH. TACKLE BLOCK.

109,261. S. J. SMITH
HAY RACK FOR WAGONS.

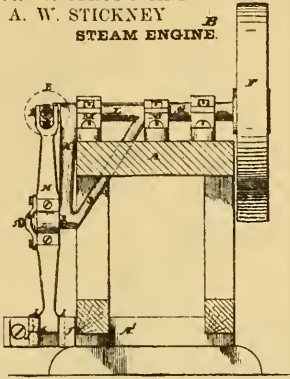
109,262. T. SNOW WASHING MACHINE.

109,263. T. J. SOUTHWORTH AND
W. H. LAWTON TAG.

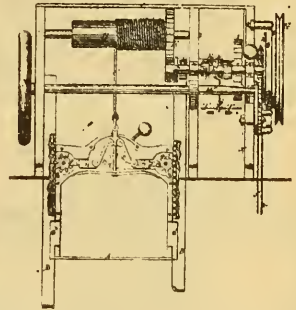
109,264. T. G. SPRINGER.
FEEDING HYDROCARBON LIQUIDS
TO A HOT GAS RETORT.



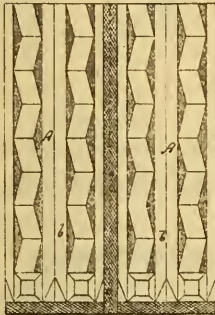
109,270. C. STRONG AND
A. W. STICKNEY
STEAM ENGINE.



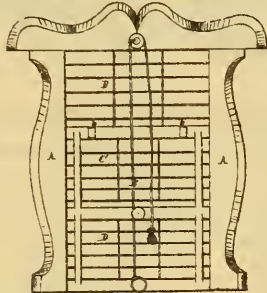
109,275. G. C. TIMPE ELEVATOR.



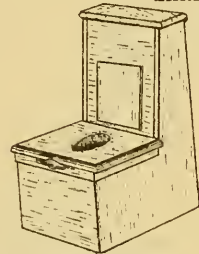
109,265. J. STEGMILLER.
MOSAIC FLOOR.



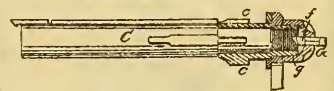
109,271 W. STRUNK WINDOW SHADE.



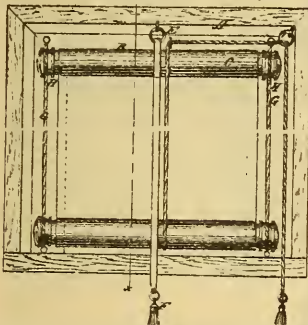
109,276. E. W. C. VANDERVEER
EARTH CLOSET.



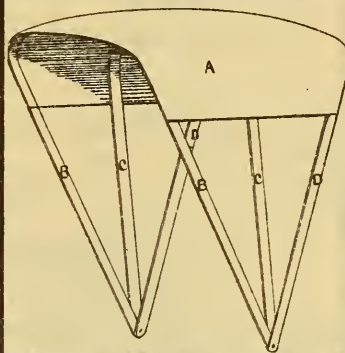
109,277. F. VETTERLIN.
BREECH LOADING FIRE ARM.



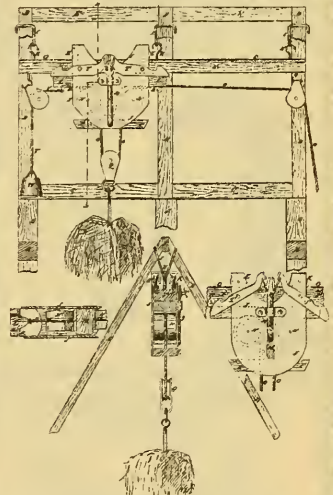
109,266. J. STEPHENS.
CURTAIN FIXTURE.



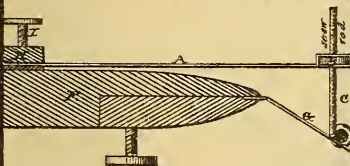
109,272. G. L. SWETT AND
J. P. LOCKEY MOLDED CARRIAGE TOP.



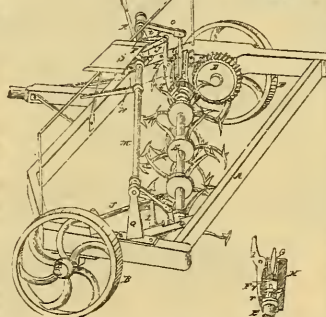
109,278. J. H. VIOLETT.
HOISTING APPARATUS.



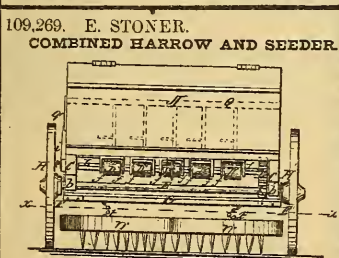
109,267. J. STEWART.
RULING MACHINE.



109,273. J. THOMPSON
ROTARY PULVERIZER.

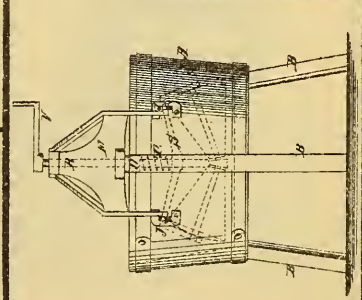


109,268. W. H. ST. JOHN AND
P. CARTWRIGHT
PURIFYING ILLUMINATING GAS.



109,269. E. STONER.
COMBINED HARROW AND SEEDER.

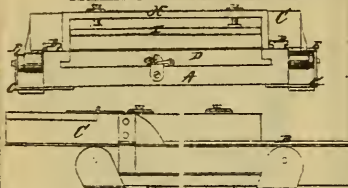
109,279. H. WARNER.
WASHING MACHINE.



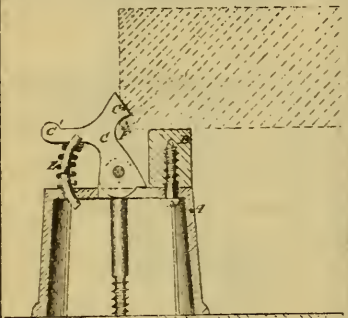
109,274. J. R. THORNE
HOOK FOR DUMPING TUBS.



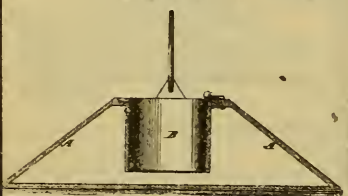
109,240. W. WEIS MACHINE FOR MAKING CIGAR BUNCHES



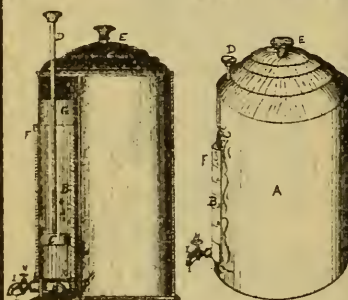
109,281. L. C. WEMPLE DOOR STOP



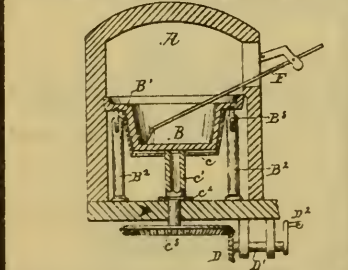
109,282. T. WILLIAMS. ROACH AND BUG TRAP



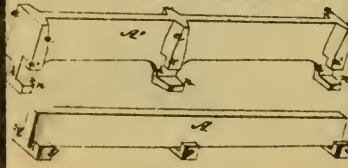
109,283. A. G. WILSON MEASURING CAN



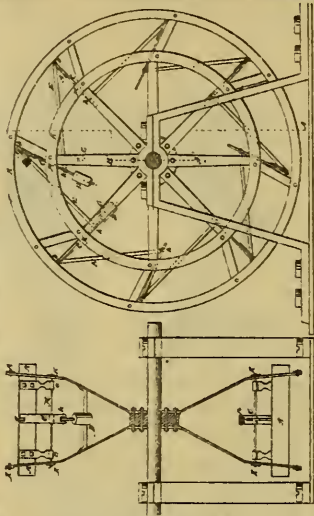
109,284. E. WOOD ROTARY PUDDLING FURNACE



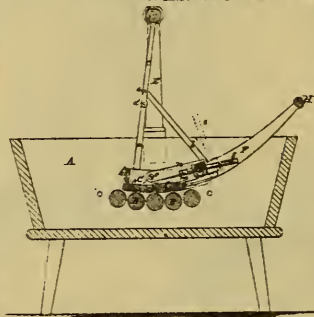
109,285. J. YOUCOM, JR. GRATE BAR



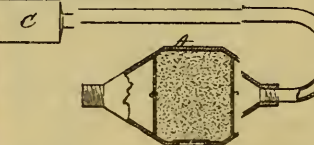
109,286. S. BATEMAN PADDLE WHEEL



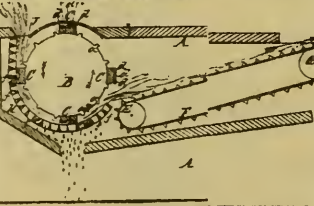
109,287. W. B. H. BEACH WASHING MACHINE



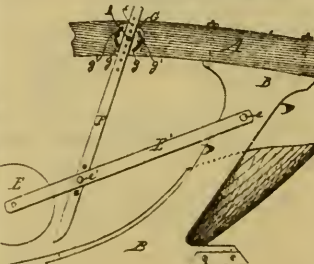
109,288. J. BEAN. FILTER



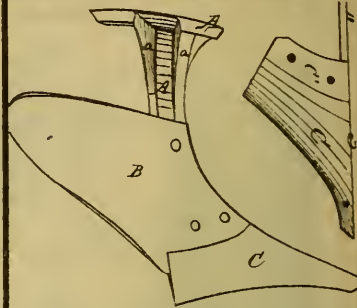
109,289. J. BOWMAN. COMBINED THRASHING MACHINE AND CORN SHELLER



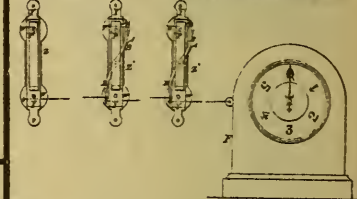
109,290. T. E. C. BRINLY PLOW



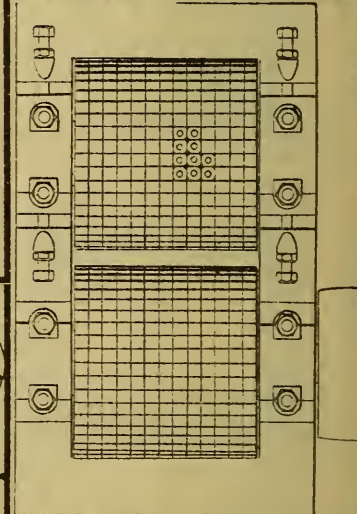
109,291. T. E. C. BRINLY. PLOW



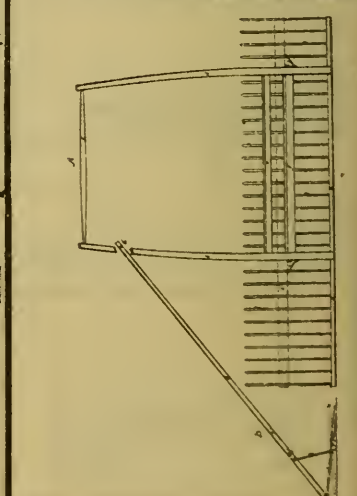
109,292. H. L. BROWER CONNECTING FIRE DETECTOR WITH THE ALARM



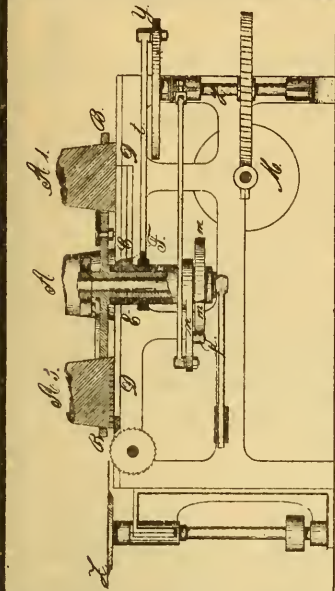
109,293. A. AND F. BROWN MACHINE FOR CUTTING LOAF SUGAR



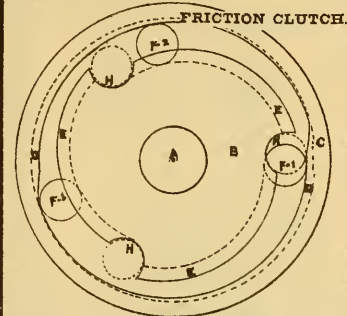
109,294. E. BROWN HAND DRAG RAKE



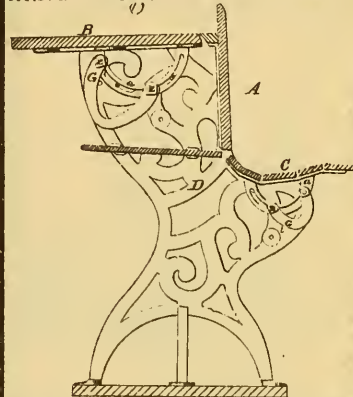
109.295. F. BROWN
MACHINE FOR CUTTING LOAF SUGAR



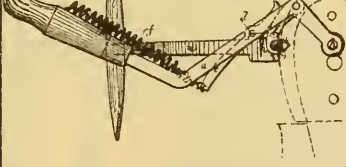
109,299. T. COLDWELL.



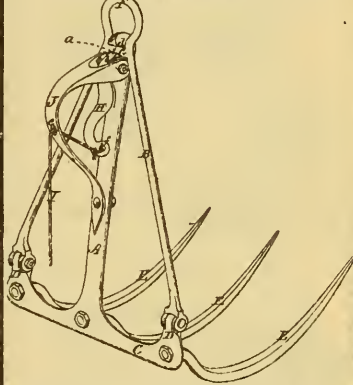
109,304. W. E. DOYLESCHOOL DESK.



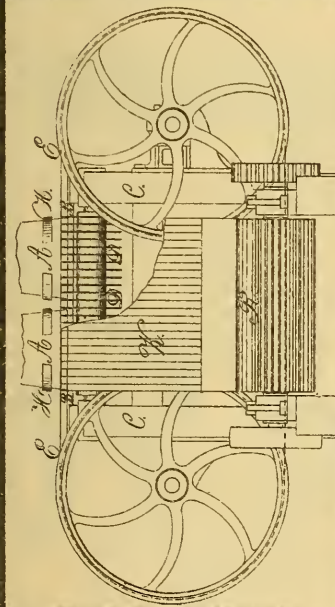
109.300. L. COTE APPARATUS
FOR TRIMMING HEELS OF
BOOTS AND SHOES.



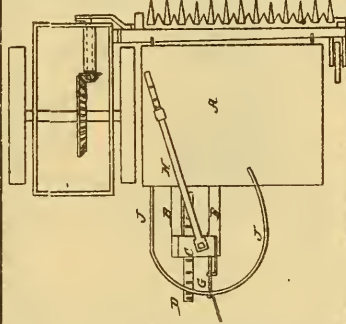
109.305. A. T. DUNBAR AND
J. H. FELLOWS, HORSE HAY FORK.



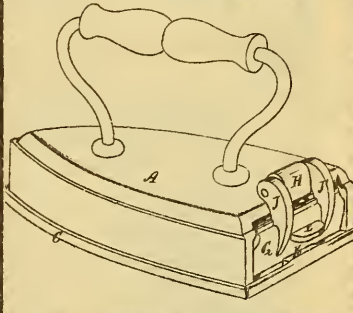
109,296. F. BROWN
MACHINE FOR CUTTING LOAF SUGAR.



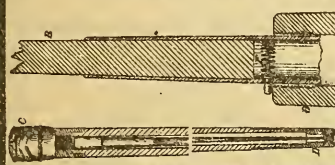
109.301. A. G. CRANE AND
W. T. JOHNSTON HARVESTER RAKE.



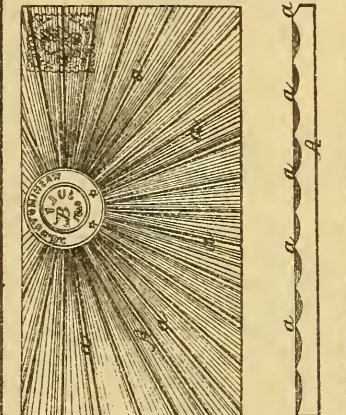
109,306. T. G. EISWALD **SAD IRON.**



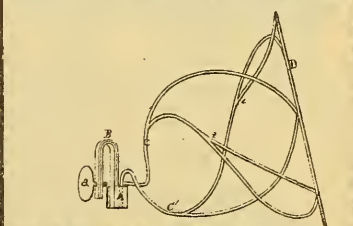
109.297. C. L. BUSHNELL.
COMBINED CANE AND WHIP



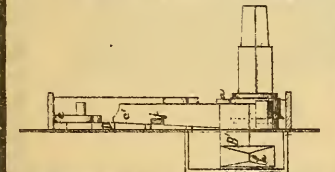
109.302. C. E. DONNELLAN
CANCELING STAMP.



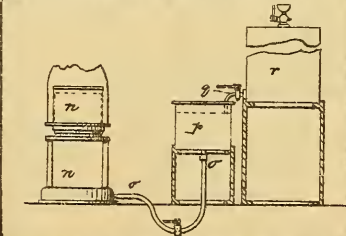
109.307. H. L. ENNES, MOP WRINGER



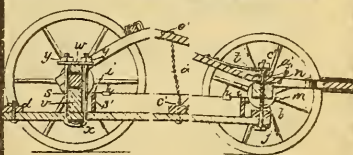
109.298. J. CAPRON COMBINED LATCH
AND LOCK FOR SLIDING DOORS.

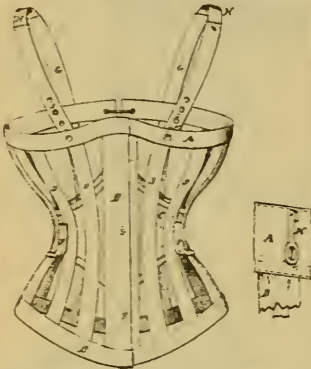
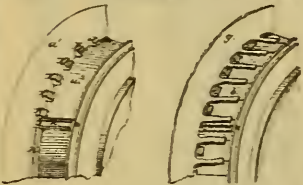


109,303. H. H. DOTY APPARATUS
FOR BURNING PARAFFINE
AND OTHER HYDROCARBON OILS

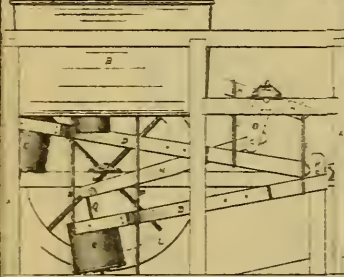
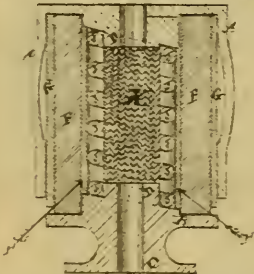


109,308. W. EVANS STONE TRUCK

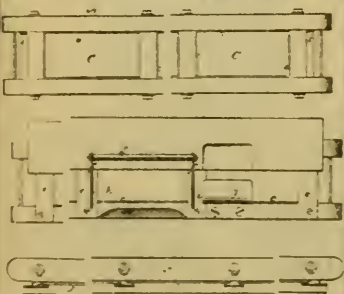
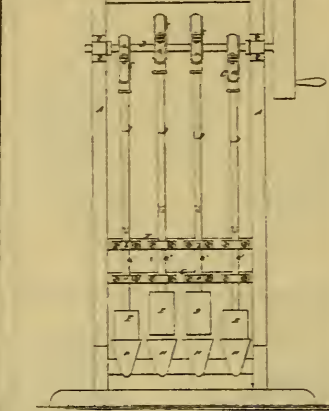


109.309. D. H. FANNING. SKIRT
SUPPORTING HOOK FOR CORSETS.109.310. J. N. FARRAR
RAILWAY CAR WHEEL

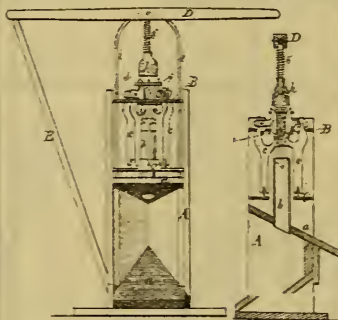
109.311. R. FRANCIS. WATER ENGINE.

109.312. H. GARDINER
RAILWAY CAR SPRING

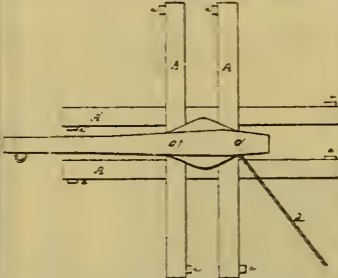
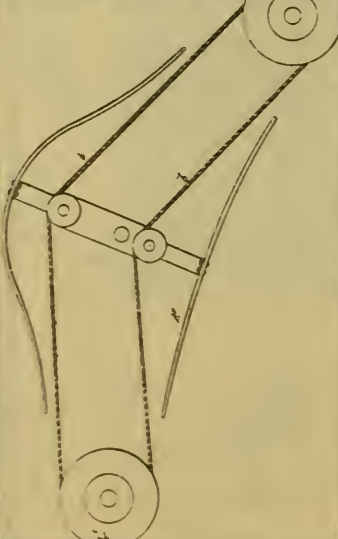
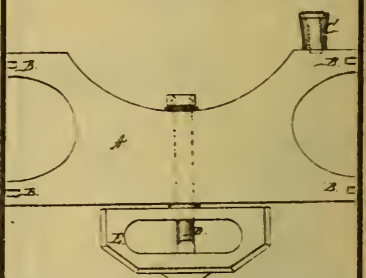
109.313. G. GRAESSLE BRICK MOLD

109.314. J. W. HAHN. APPARATUS
FOR THE MANUFACTURE OF SUGAR.

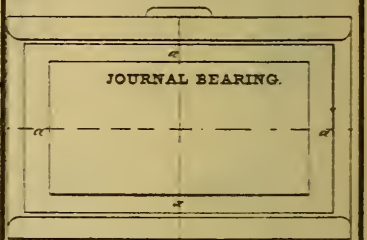
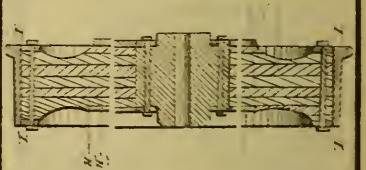
109.315 J. R. HAMILTON CORN SHELLER



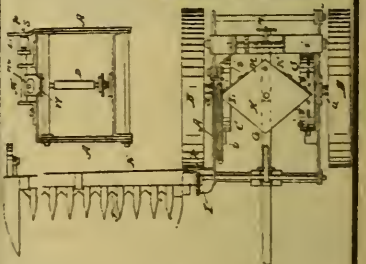
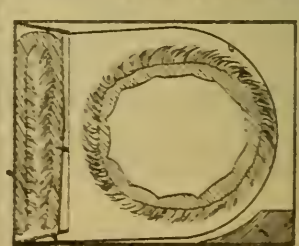
109.316 S. HARMAN STUMP EXTRACTOR

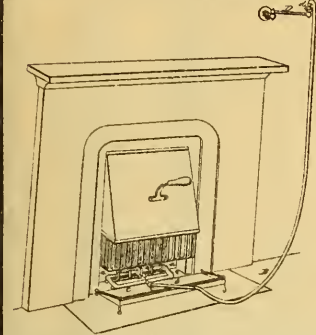
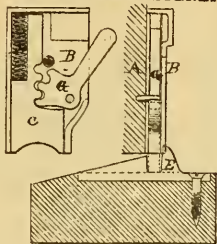
109.317. C. HODGSON APPARATUS FOR
TRANSPORTING LOADS ON WIRE ROPE109.318. G. HOLMAN
CLOTHES LINE REEL.

109.319. D. A. HOPKINS

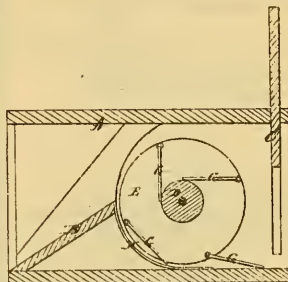
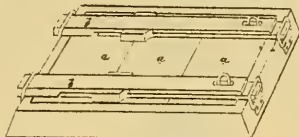
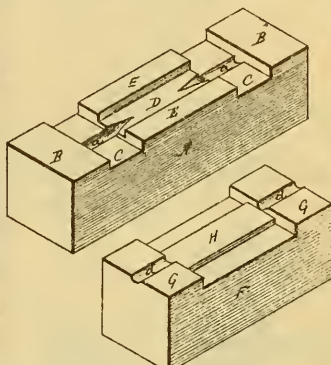
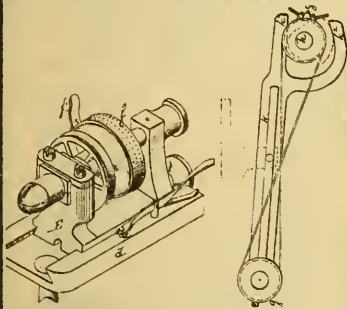
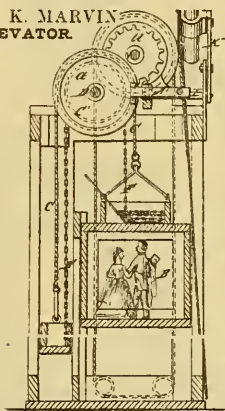
109.320. L. B. HUNT
RAILWAY CAR WHEEL

109.321. J. C. HYDE. BUCKLE.

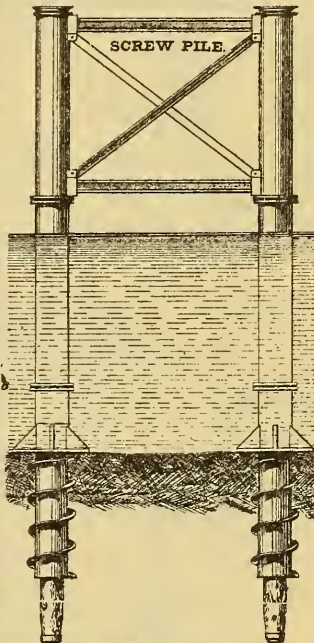
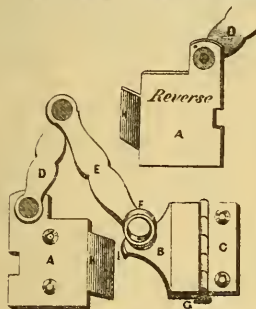
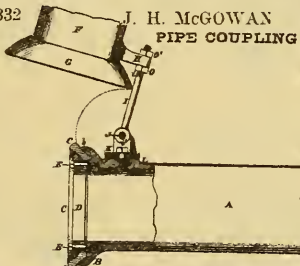
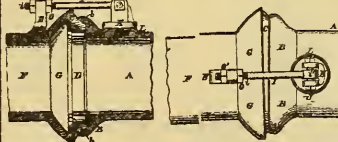
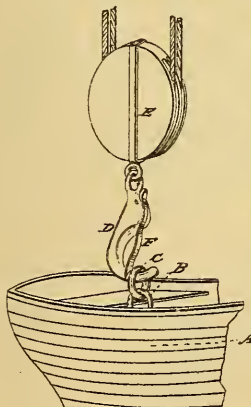
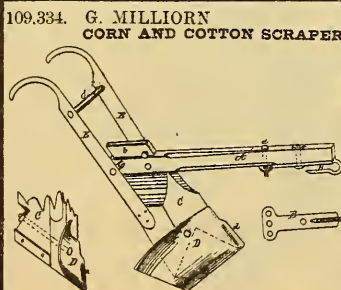
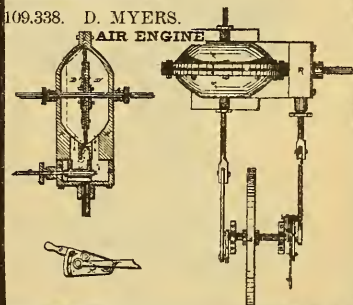
109.322. B. ILLINGWORTH
MOWING MACHINE.109.323. G. L. JAEGER
MUFF AND COLLAR BOX

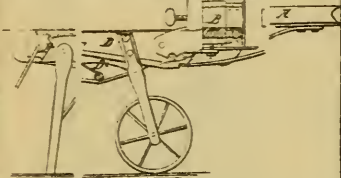
109,324. J. KENNEY, SR.
FIRE KINDLER.109,329. I. O. LUEY
SHUTTER FASTENER.

109,335 J. A. MORGAN WATER WHEEL.

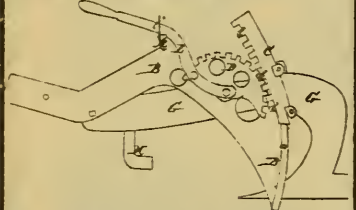
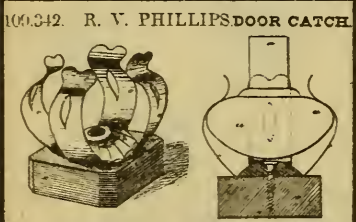
109,330. J. P. MADDOX
VESSEL'S HATCH109,336. F. B. MORSE.
DIE FOR FORGING CARRIAGE CLIPS.109,325. H. D. KNIGHT MACHINE FOR
GRINDING AND POLISHING LENSES, &c.109,331. W. K. MARVIN
ELEVATOR.

109,337. T. W. H. MOSELEY

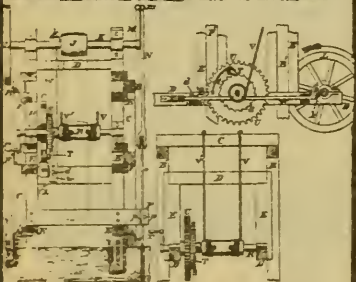
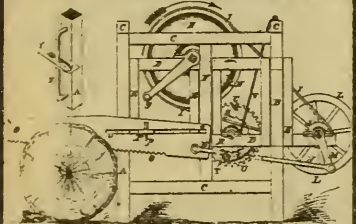
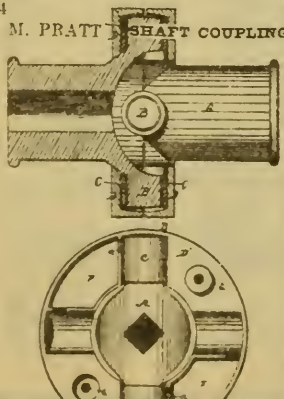
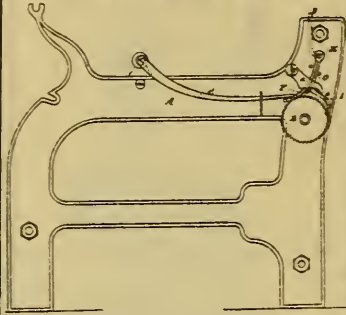
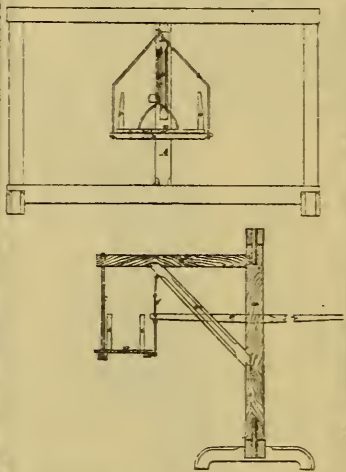
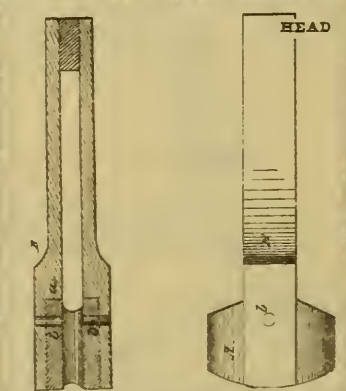
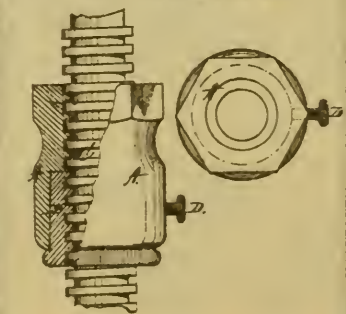
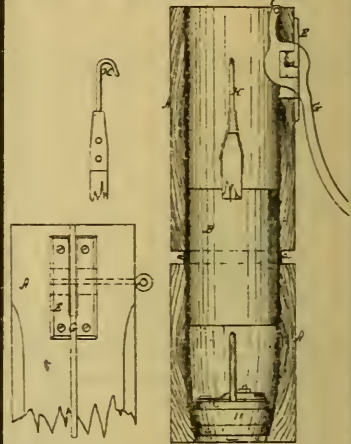
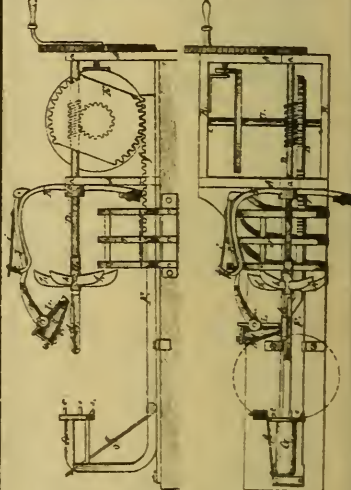
109,326. J. F. LASH
OPENING AND SHUTTING DEVICE FOR
RAILROAD CAR WINDOWS.109,332 J. H. MCGOWAN
PIPE COUPLING109,327. R. G. LOFTUS.
INK FOR WRITING109,328. J. A. LORD, JR.
DETACHING HOOK.109,333. A. B. McKEON
CONCRETE PAVEMENT109,334. G. MILLIORN
CORN AND COTTON SCRAPER109,338. D. MYERS.
FAIR ENGINE

109,339. W. OLDS. OFF BEARING
TRUCK FOR BRICK MACHINES.

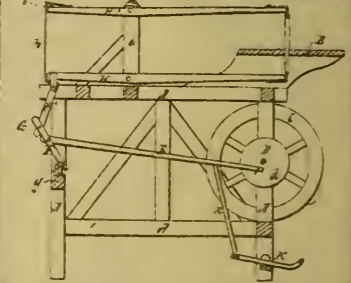
109,340. O. OSBORN. FLOW

109,341. A. PARAFMANUFACTURE
AND APPLICATION OF
COLORS FOR PRINTING AND DYEING

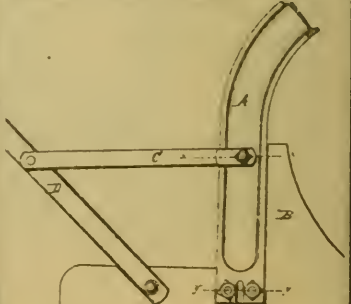
109,343 R. J. POSTON SAWING MACHINE

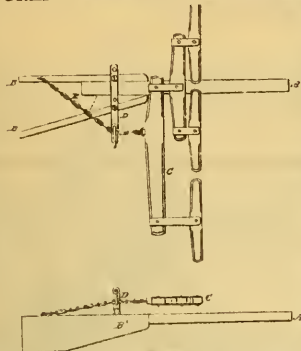
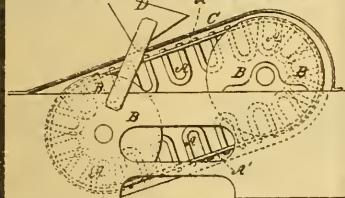
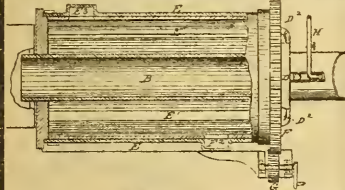
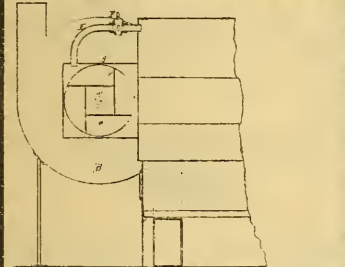
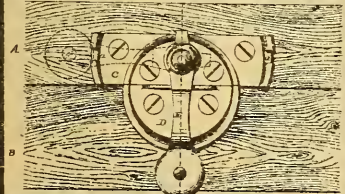
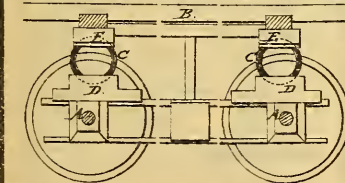
109,344
W. M. PRATT. SHAFT COUPLING109,345. G. RICHARDSON
TAKE-UP DETAINING PAWL109,346. R. B. ROBBINS. WOOD AND
COAL DUMPER FOR RAILWAYS109,347. A. ROSS AND J. ARTHUR
RAILWAY CAR BUMPER AND DRAW109,348. T. ROSS AND
W. W. GRAHAM TAKE-UP NUT.109,349. A. SHERMAN AND
J. W. SHEAFFER PUMP.109,350. J. SHOBE.
APPLE PARER, CORER, AND SLICER.

109,351 F. D. SMITH SAWING MACHINE

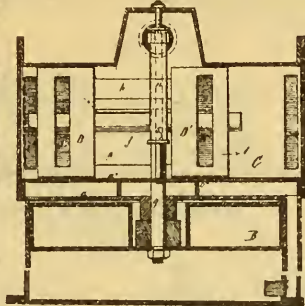


109,352. H. SMITH FLOW.

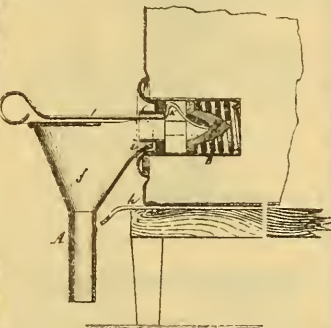
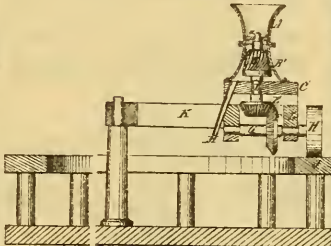
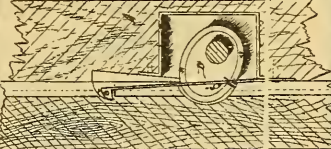


109,353. J. M. SMITH
DRAFT DEVICE FOR HARVESTERS.109,354. J. Y. SMITH MACHINE
FOR SEPARATING MAGNETIC
IRON ORES FROM OTHER SUBSTANCES109,355. J. Y. SMITH FURNACE
AND PROCESS FOR TREATING
IRON AND OTHER ORES.109,356. R. A. SMITH
BLAST APPARATUS FOR FURNACES109,357. H. ST. JOHN
WINDOW FASTENING.109,358. W. M. FAYLOR.
SPRING FOR RAILWAY CAR TRUCKS

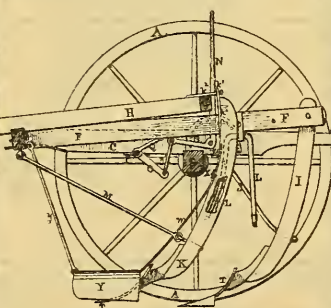
109,359. F. WAGNER FLUID METER.



109,360. A. WARTH FUNNEL.

109,361. J. M. WESTMORELAND
GRINDING MILL.109,362. E. H. WHEELER
SASH HOLDER

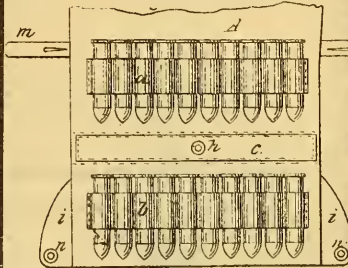
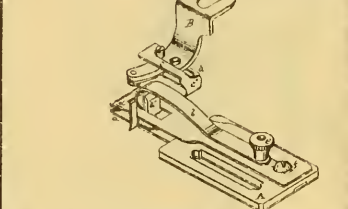
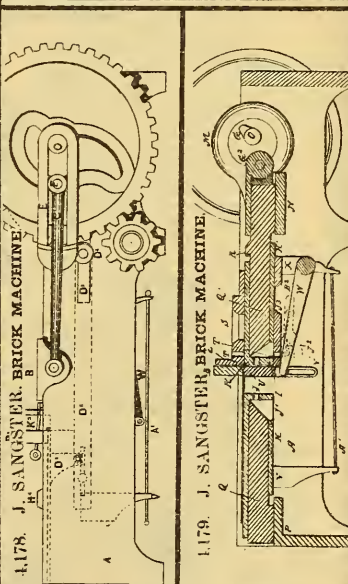
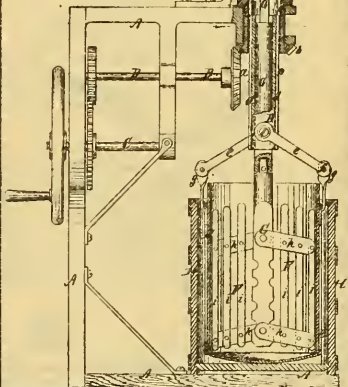
109,363. B. F. YOUNG CULTIVATOR



109,364

W. ZEIGLER AND J. H. SEAL
FLAVORING COMPOUND

109,365. J. R. KING CARTRIDGE BOX.

109,366. W. N. MARTIN BINDING
ATTACHMENT FOR SEWING
MACHINES.1,177. B. G. MARTIN
ICE CREAM FREEZER.

4,180. E. YEOMAN BED BOTTOM.

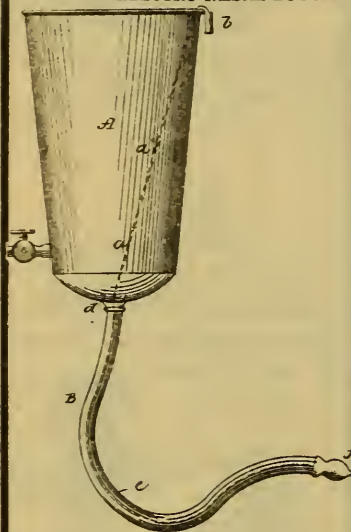
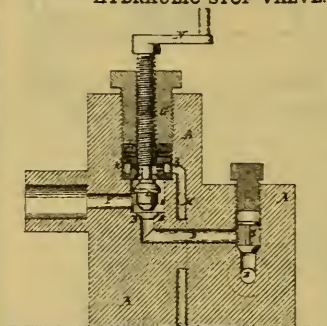
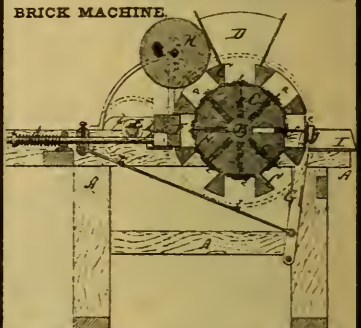
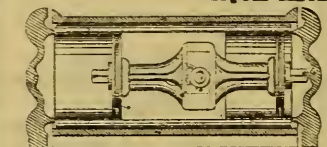
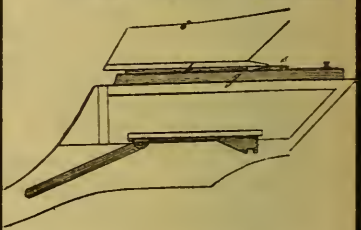
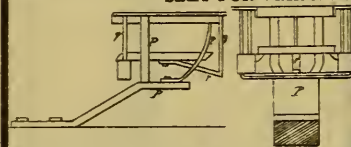


ILLUSTRATIONS OF PATENTS

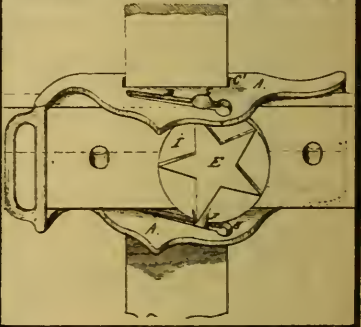
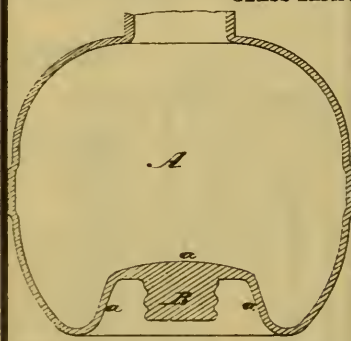
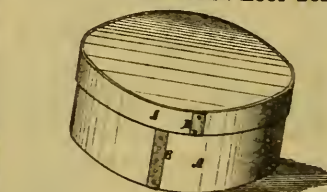
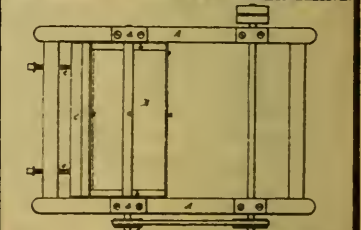
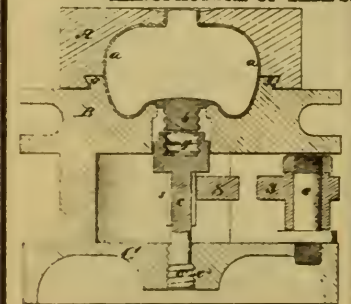
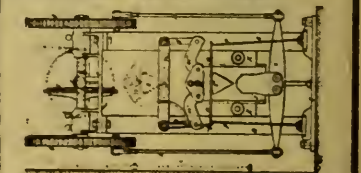
ISSUED FROM

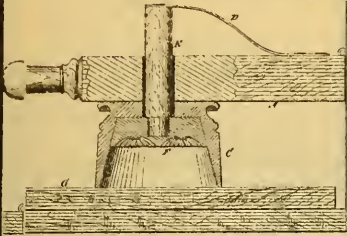
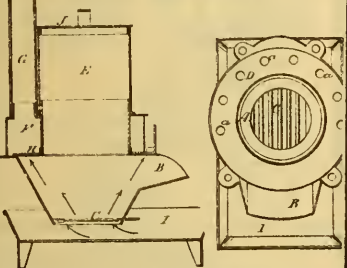
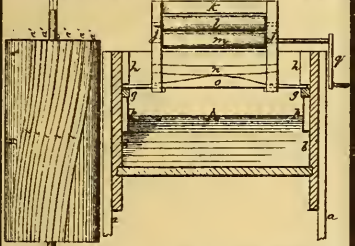
THE UNITED STATES PATENT OFFICE

NOVEMBER 22, 1870.

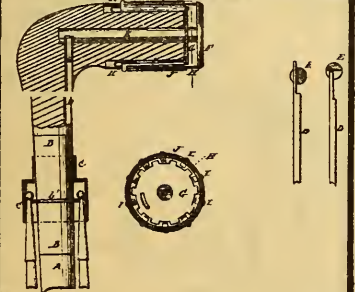
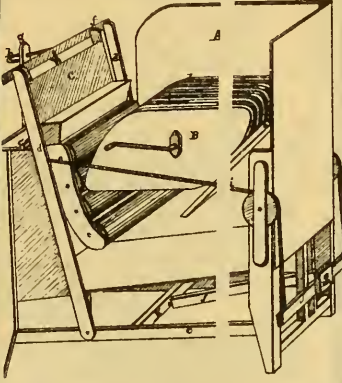
109367. S. F. ADAMS.
ELECTRO NASAL DOUCHE.109371. C. S. BAILEY.
HYDRAULIC STOP VALVE.109376. T. E. BONNER, dec'd.
J. R. ARMSTRONG, administrator.
BRICK MACHINE.109372. P. BALL AND B. FITTS.
LIQUID METER.109377. R. F. BRIGGS.
SLIDING SEAT FOR CARRIAGES.109368. D. R. ALLEN.
SEAT FOR VEHICLES.

109378. L. BROOKS. TRACE BUCKLE.

109369. J. S. AND T. B. ATTERBURY.
GLASS LAMP.109373. S. S. BARRIE.
WOODEN HOOP BOX.109379. J. M. BROWN.
SOFTENING SHEEP AND OTHER SKINS.109370. J. S. AND T. B. ATTERBURY.
MANUFACTURE OF LAMPS.109374. G. F. BEARDSLEY.
SASH HOLDER.109375. W. H. BIXLER.
BROOM HOLDER.109380. B. BRUNON MANUFACTURE
OF WROUGHT METAL WHEELS.

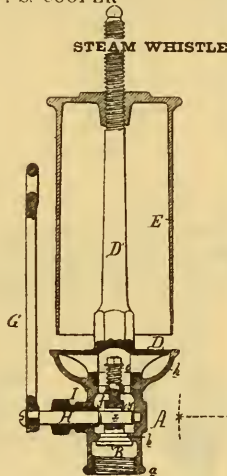
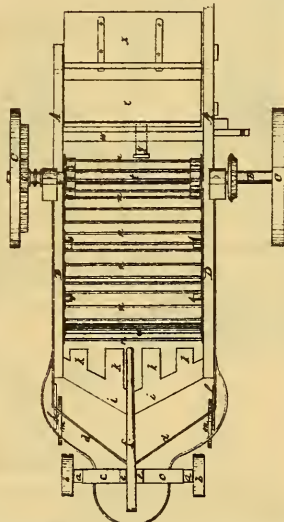
109,381. J. N. BRUSH
BUTTER WORKER109,382. M. V. BULLA. CLOTHES
HOLDER FOR CLOTHES LINES.109,383. F. M. CAMPBELL AND
L. W. BROWN TINNER'S FIRE POT.109,384. H. CHINN AND J. F. REIGART
SHEET METAL COVER FOR SEWING
MACHINES.109,385. A. CLARK MACHINE FOR
WASHING AND WRINGING CLOTHES.

109,386. H. CLARKE. UMBRELLA LOCK

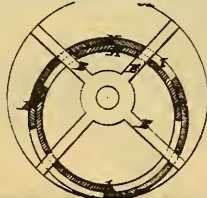
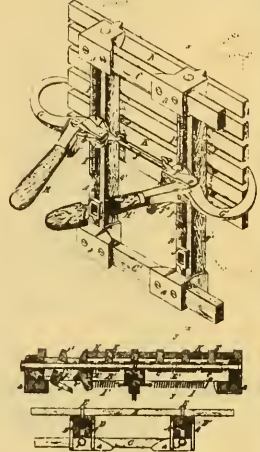
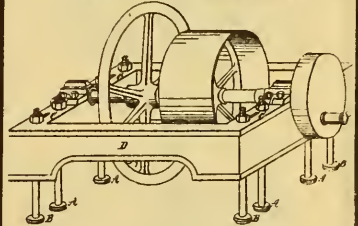
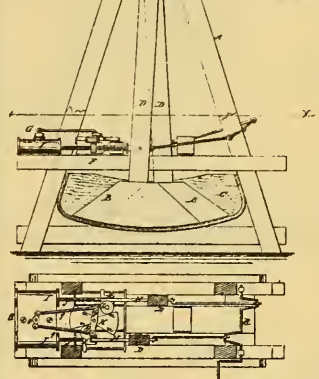
109,387. DE WITT C. COOLEY
WASHING MACHINE

109,388. W. S. COOPER

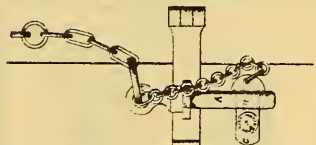
STEAM WHISTLE

109,389. J. W. CORWIN
POTATO DIGGER

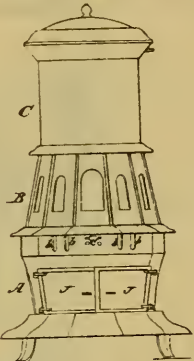
109,390. K. AND T. COX WATER WHEEL

109,391. G. N. CREAMER
LATHING MACHINE109,392. A. J. CROFT
BED PLATE FOR SAW MILLS109,393. J. G. CURTIS
OPERATING HIDE MILLS

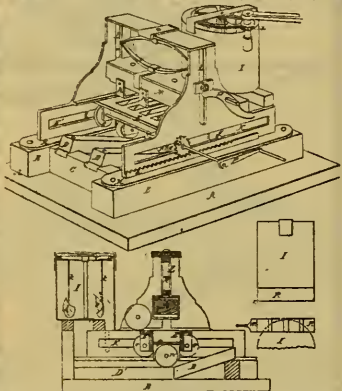
109,394. J. DEWE. CAR SEAL

109,395. H. R. DEXTER
WINDOW SCREEN FRAME

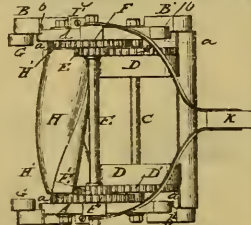
109,396. A. DICKEY HEATING STOVE.



109,397. L. DODGE PRESS FOR THE MANUFACTURE OF ARTIFICIAL STONE.



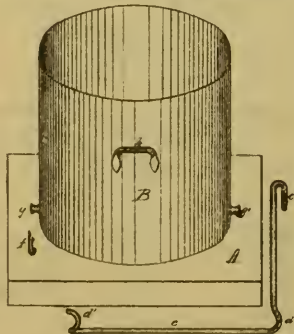
109,398. W. H. DRAKE LAWN MOWER.



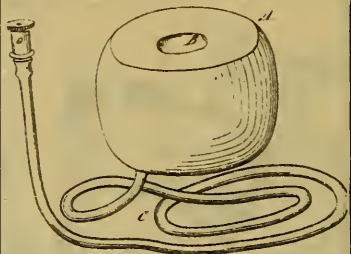
109,399. C. S. DUNBRACK LAST.



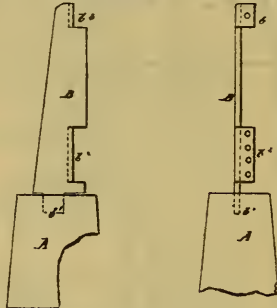
109,400. D. D. EDGERTON MILK CAN FASTENER.



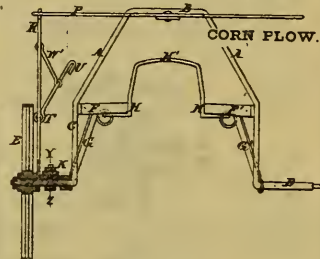
109,401. R. FAULKNER UTERINE SUPPORTER.



109,402. A. M. FREEMAN, C. P. IDELL AND B. VANDERHOVEN PICKET FENCE POST.



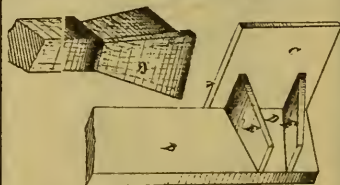
109,403. W. AND J. C. FRENCH



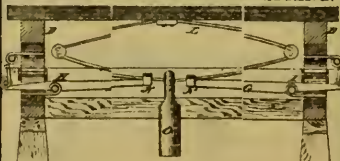
109,404. A. FULTON GAS BURNER.



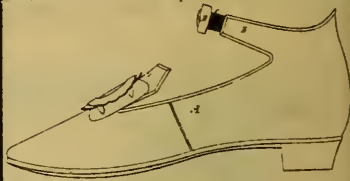
109,405. W. W. GOODRICH ANCHOR BEAM SUPPORT FOR BRICK WALLS.



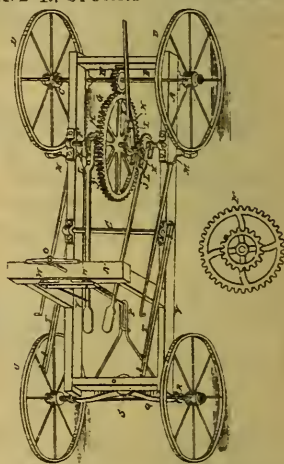
109,406. J. H. GOULD VEHICLE SPRING.



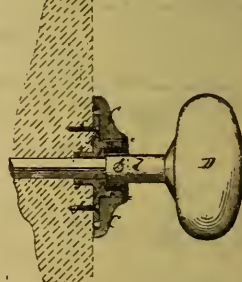
109,407. F. GURNEY SHOE.



109,408. D. HANCHETT, J. C. DANNEY AND R. STUART VELOCIPEDE.



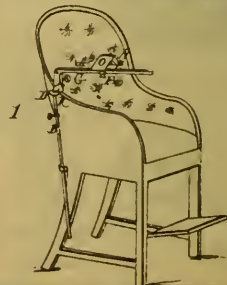
109,409. J. J. HENDERSON ROSE FOR DOOR KNOBS.



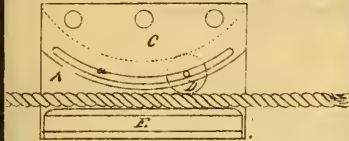
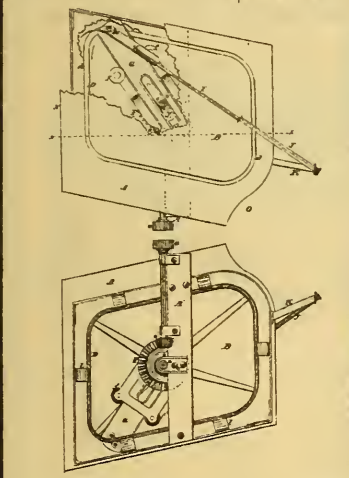
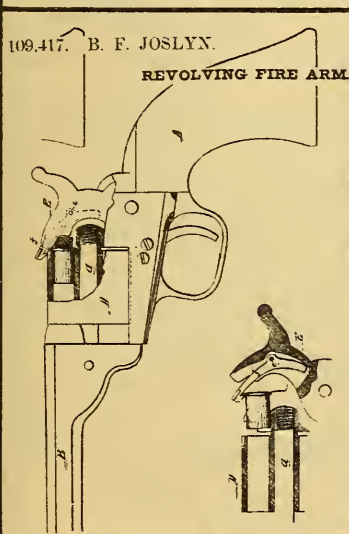
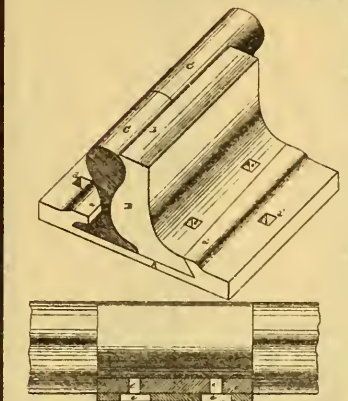
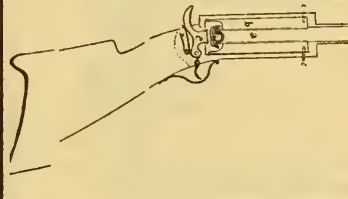
109,410. A. M. HUGHES DIAPER.



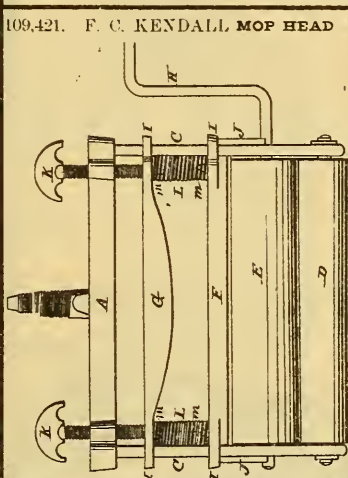
109,411. R. F. HUNT DENTIST'S REST.



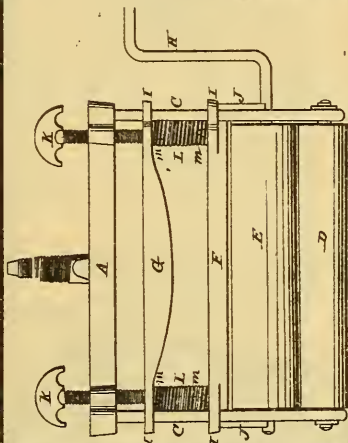
109,412. C. W. HUSON ROPE HOLDER

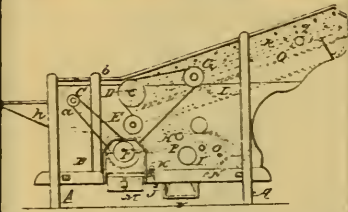
109,413. H. INGRAHAM
SPRING BED BOTTOM109,414. A. W. JOHNSON
SHUTTLE FOR SEWING MACHINES.109,415. L. A. JOHNSON
HARVESTER RAKE109,416. H. M. JOHNSTON AND F. BECK
PREPARATION OF MICA.109,417. B. F. JOSLYN.
REVOLVING FIRE ARM109,418. C. R. JOYCE
RAILWAY RAIL CHAIR109,419. A. B. KAY.
BREECH LOADING FIRE ARM

109,420. J. KAYE JR. PRESERVING EGGS



109,421. F. C. KENDALL, MOP HEAD

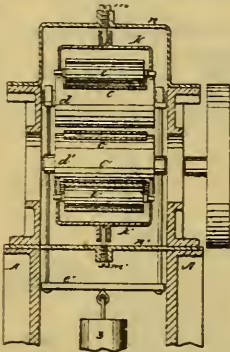
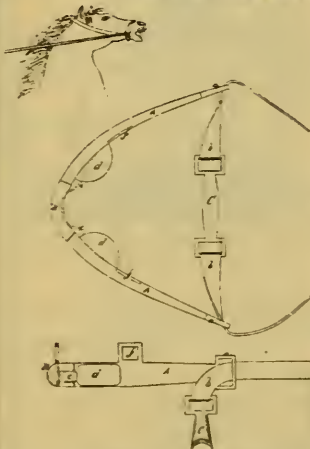
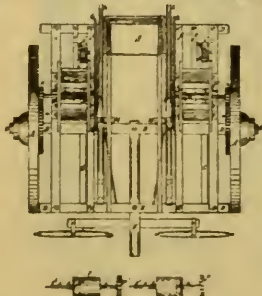
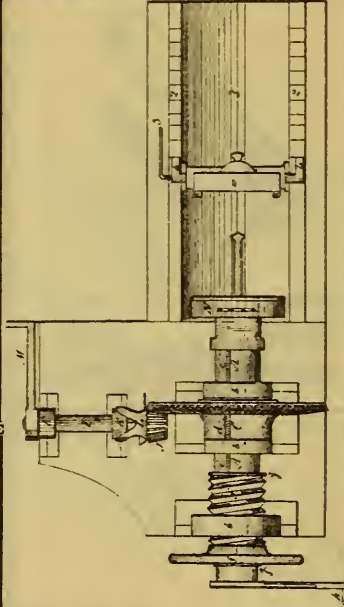


109,428. J. S. LANDIS COMBINED
THRASHER AND GRAIN SEPARATOR.

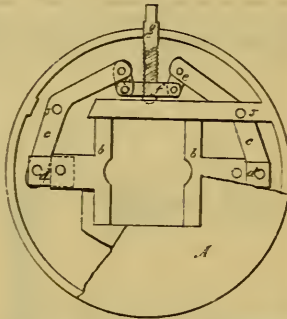
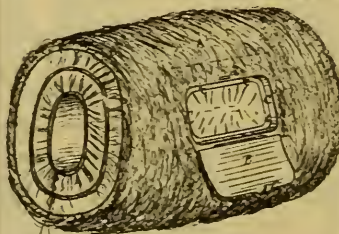
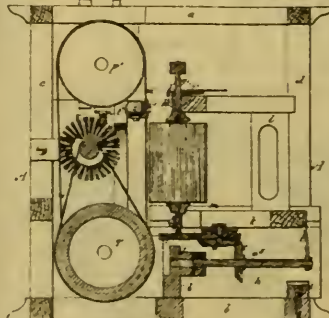
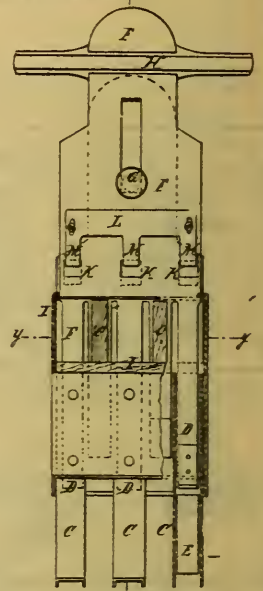
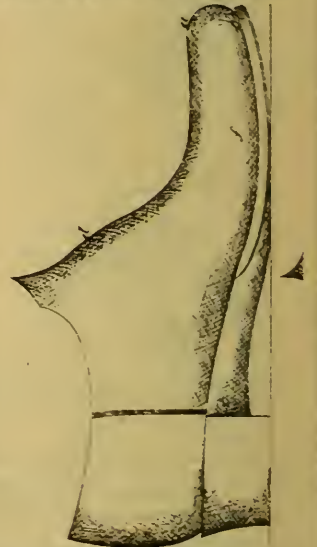
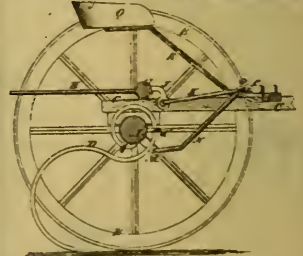
109,429. A. H. LAWSEWING THIMBLE



109,430. P. LEAVITT DRAWING FRAME

109,431. A. LE PLONGEON
HALTER FOR HORSES.109,432. J. LEWIS.
CULTIVATOR AND SEEDER COMBINED109,433. M. LOVE.
MACHINE FOR THREADING BOLTS

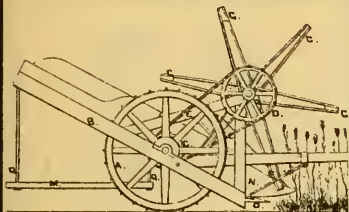
109,434. M. LOVE CHUCK

109,435. H. MANNECK AND
C. STROHMENGER. COMBINED
MUFF AND PORTEMONNAIE.109,436. C. H. MAYO
SAWING MACHINE109,437. P. McCOLLUM
HAND CORN PLANTER.109,438. J. McCOMBER METHOD OF
CONSTRUCTING BOOTS AND SHOES.109,439. O. T. NANNY.
HORSE HAY RAKE.

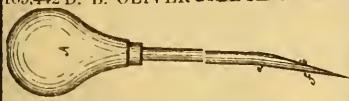
109,440 W. T. NICHOLS. ROAD SCRAPER



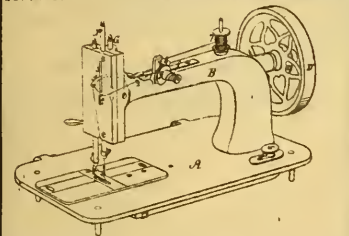
109,441 G. OERLEIN HARVESTER RAKE



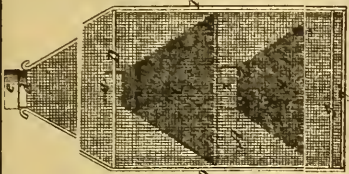
109,442 D. B. OLIVER GRAFTING AWL



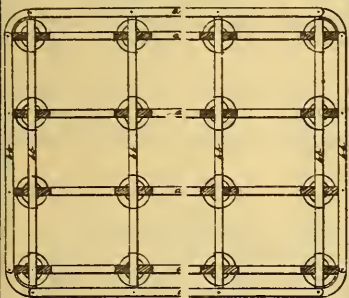
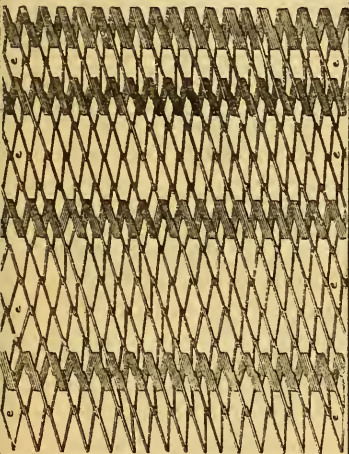
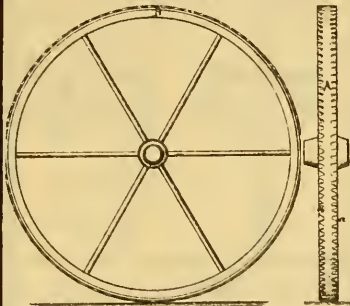
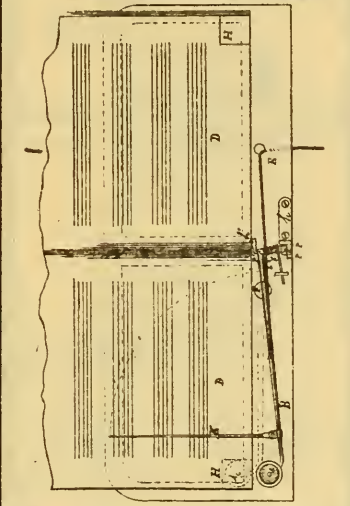
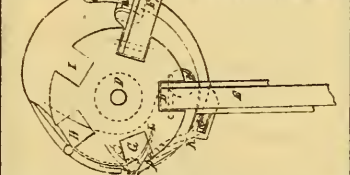
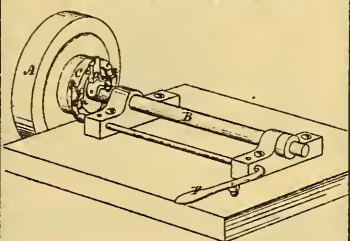
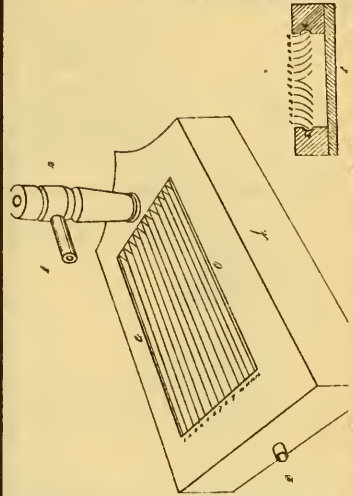
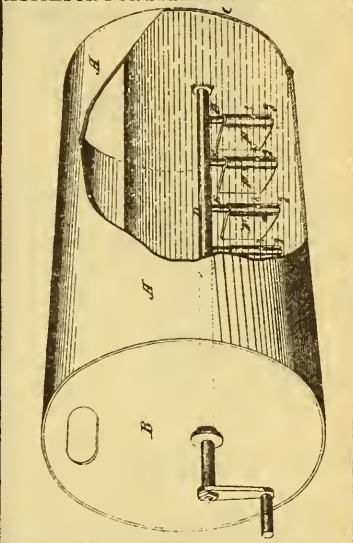
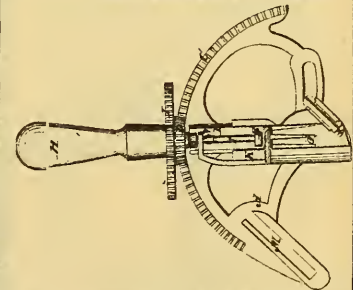
109,443 C. PARHAM SEWING MACHINE



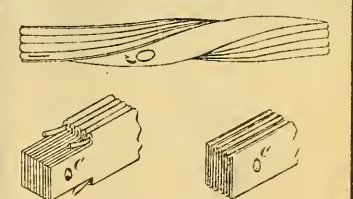
109,444 J. PARKER FLY TRAP

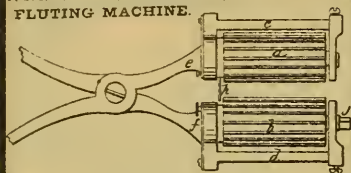
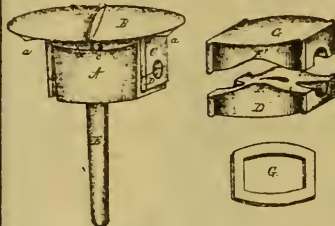
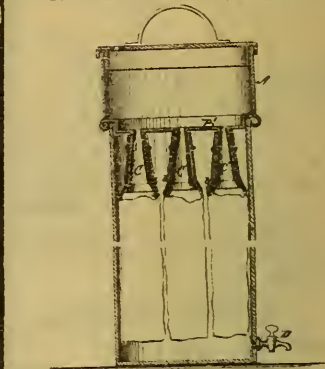
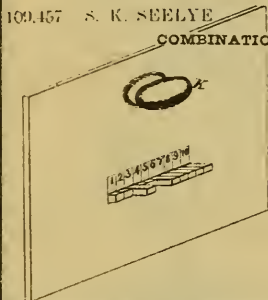
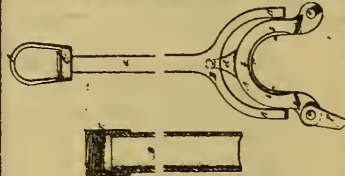
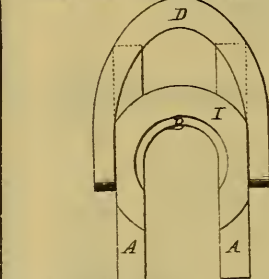
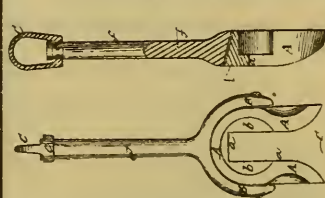
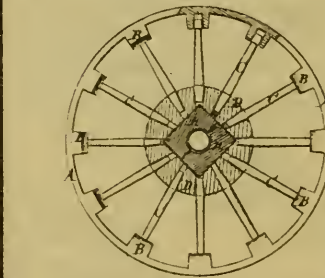


109,445 J. F. PECKS PRING BED BOTTOM

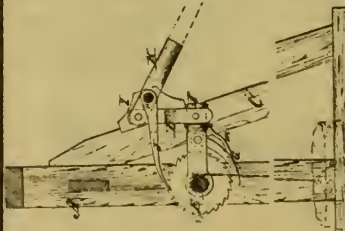
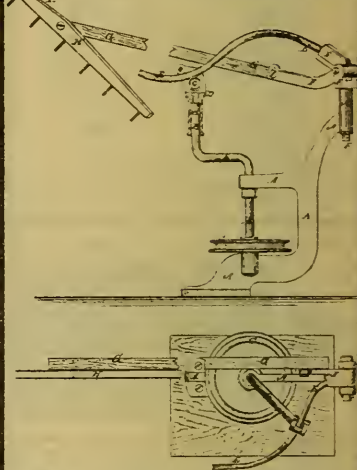
109,446 G. C. PERKINS
WOVEN WIRE MATTRESS.109,447. C. V. PETTIBONE
WHEEL FOR VEHICLES109,448. C. P. CLAYTON AND
A. K. TUTTLE
ATMOSPHERIC LEAF TURNER109,449. W. PIMLOTT.
HARVESTER RAKE109,450. J. E. PLUMMER AND
J. P. NOYES.
CLUTCH FOR MACHINERY109,451. F. C. POOLE AND H. HOWE
SKATE FASTENING.109,452. W. N. REED
DRIFT RECEIVING GRATE109,453. B. W. REYNOLDS. SEDIMENT
AGITATOR FOR STEAM BOILERS.109,454. W. ROBB, 2nd
APPLE PARING MACHINE.

109,455. G. ROW. LIGHTNING ROD

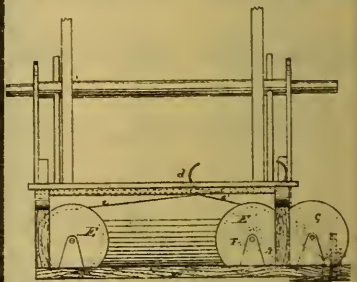
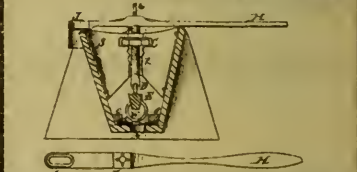
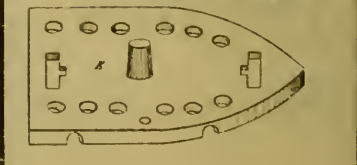
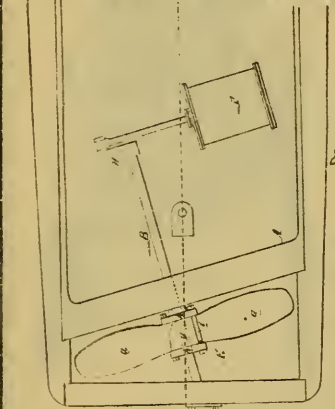
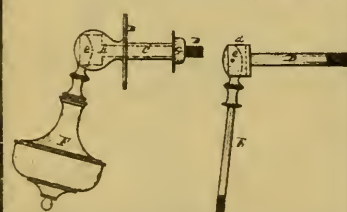
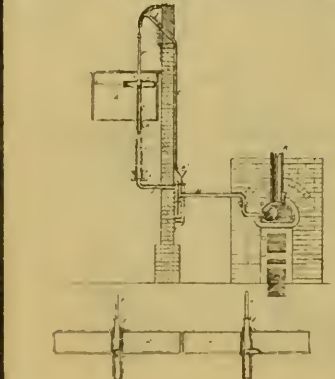


109.456. H. SAUERBIER
FLUTING MACHINE.109.461. A. G. SMITH AND
W. PETTINGELL.
INSULATOR FOR TELEGRAPH WIRES.109.467. J. STRAUSS.
FILTER FOR WINES, SIRUPS, &c.109.457. S. K. SEELYE
COMBINATION LOCK.109.462. J. P. SMITH
TUBE DRAWER FOR DEEP WELLS.109.463. J. P. SMITH
TUBE DRAWER FOR DEEP WELLS.109.464. J. P. SMITH SUCKER ROD
DRAWER FOR DEEP WELLS.109.465. T. J. SMITH
WHEEL FOR VEHICLES.

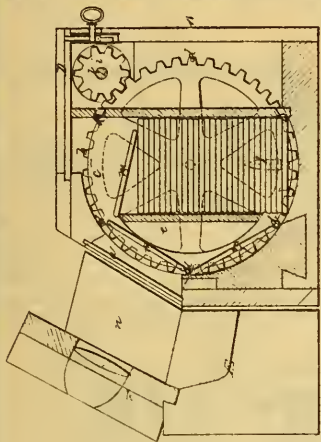
109.466. W. SMITH STUMP EXTRACTOR.

109.468. H. A. STRINGER AND
A. F. WARD HARVESTER RAKE.

109.469. W. SUTLIFF HARVESTER RAKE.

109.470. J. G. THOMPSON AND
F. M. BRIGGS SEED SOWER.109.471. J. W. THORP
SAD IRON HEATER.109.458. C. SHARPS.
PROPELLING MECHANISM.109.459. J. H. SHELTON
FURNITURE KNOB.109.460. J. R. SMEDBURG GENERATING
GAS FROM HYDROCARBONS.

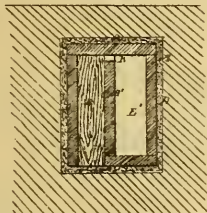
109,472. A. G. WALTON DEVICE FOR EXHIBITING PHOTOGRAPHIC PICTURES



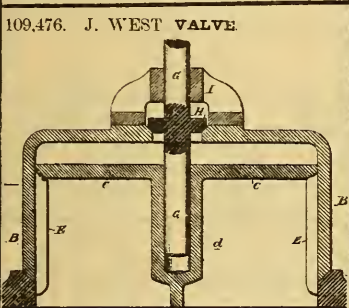
109,473. W. F. WARBURTON VENTILATOR FOR HATS.



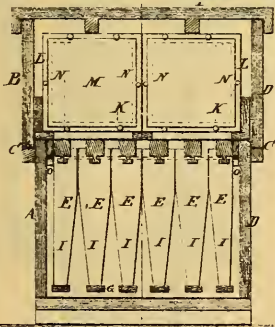
109,474. S. H. WARNER UNDERGROUND DRAIN.



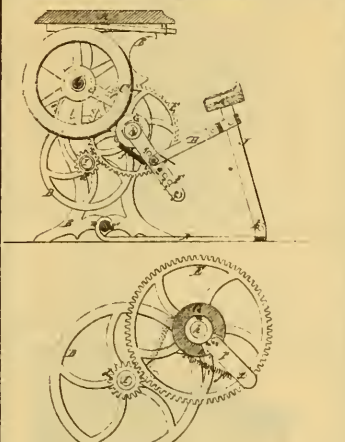
109,475. L. WATROUS ELECTROPLATING WITH NICKEL THE METALLIC PARTS OF COTTON GINS



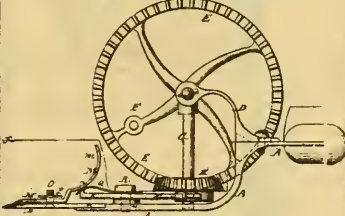
109,477. G. T. WHEELER BEE HIVE.



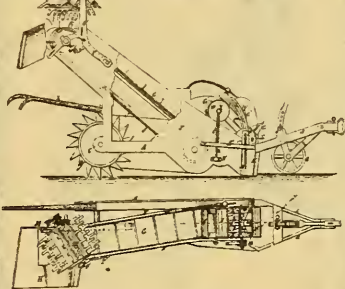
109,478. A. WHITEMORE MOTIVE MECHANISM OF SEWING MACHINES



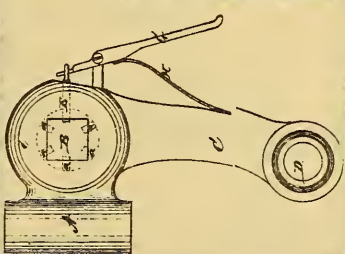
109,479. J. C. WILSON HAIR CLIPPING DEVICE



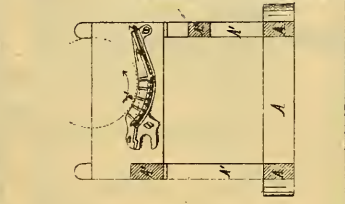
109,480. S. S. WOOD DITCHING MACHINE



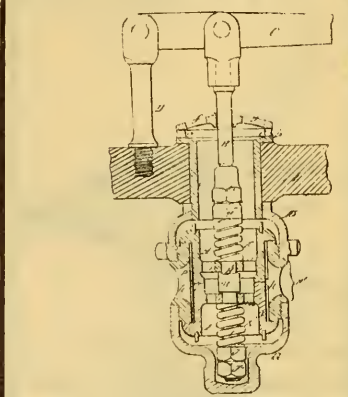
109,481. J. D. WRIGHT MEANS FOR ADJUSTING THE GRAIN WHEEL OF HARVESTERS



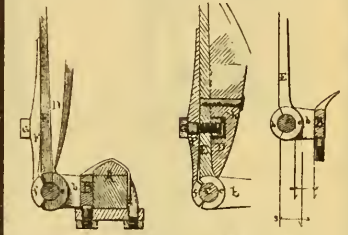
109,482. J. ALLONAS THRASHING MACHINE.



109,483. A. C. ANCONA SAFETY VALVE

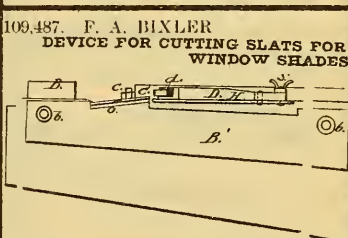


109,484. W. W. ANDERSON THILL COUPLING

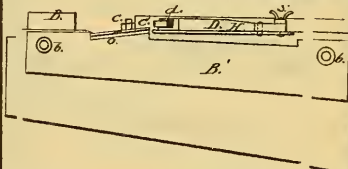


109,485. R. A. BEATTIE VARNISH

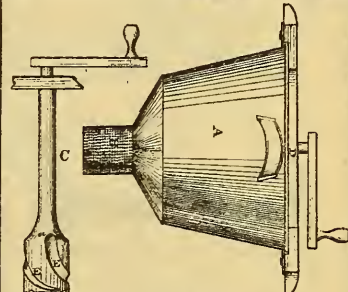
109,486. F. BECK COATING AND ORNAMENTING THE SURFACE OF PAPER CLOTH, &c.



109,487. F. A. BIXLER DEVICE FOR CUTTING SLATS FOR WINDOW SHADES.



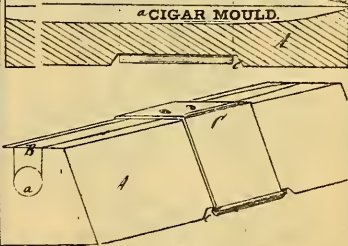
109,488. H. BLAKE CREAM STRAINER

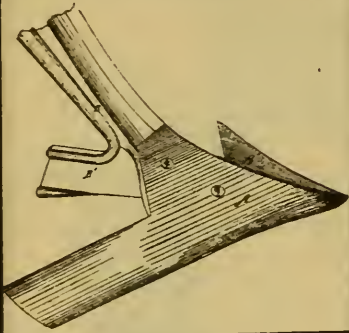


109,489. S. BORDEN PREPARATION OF GARANCINE

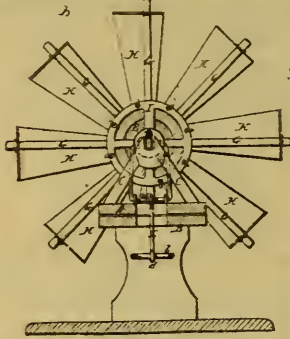
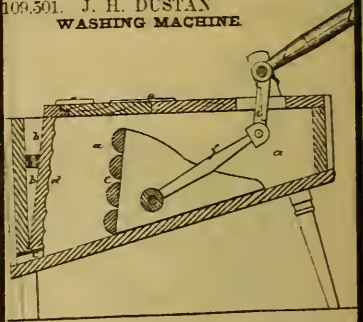
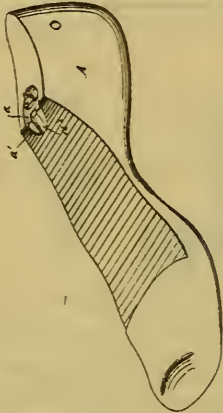


109,490. N. H. BORGFELOTT

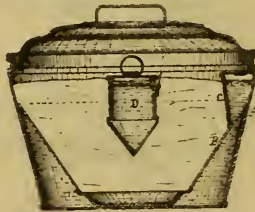
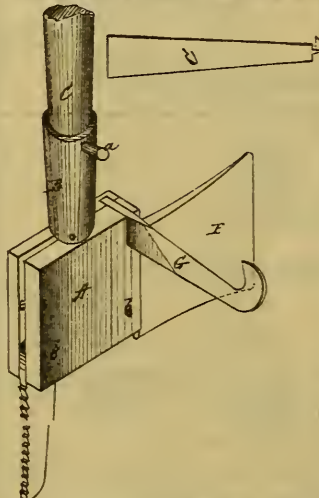


109,491. T. E. C. BRINLY.
COTTON SWEEP

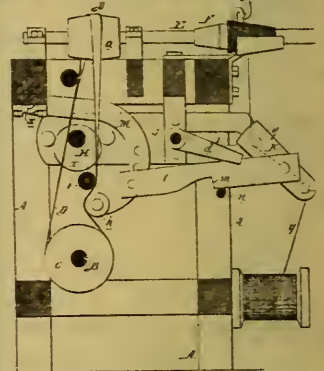
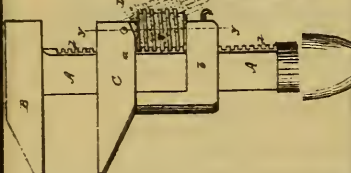
109,496. J. P. CLEMENT. WINDMILL

109,501. J. H. DUSTAN.
WASHING MACHINE109,492. J. BULLIVANT.
FASTENING FOR BLOCKS OF LASTS.

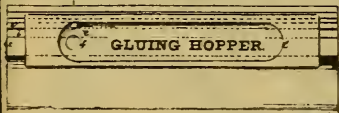
109,497. W. A. DAGGETT. BREAD PAN.

109,498. C. W. DAWSON.
COMBINED PRUNING IMPLEMENT.

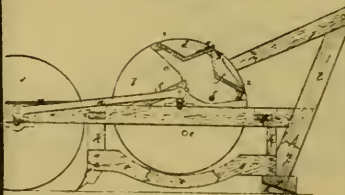
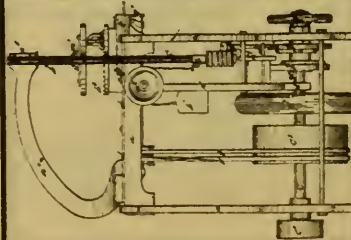
109,502 S. ECCLES. WINDING MACHINE.

109,493. P. BURRESS AND C. CLINE.
WRENCH.

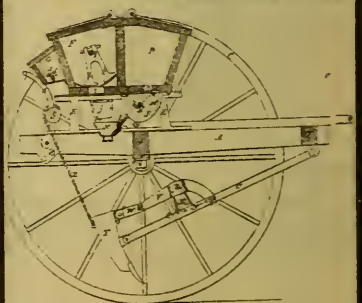
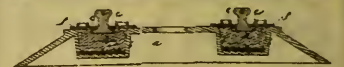
109,494. J. W. CAMPBELL



109,495. P. CEREDO. NUT CRACKER.

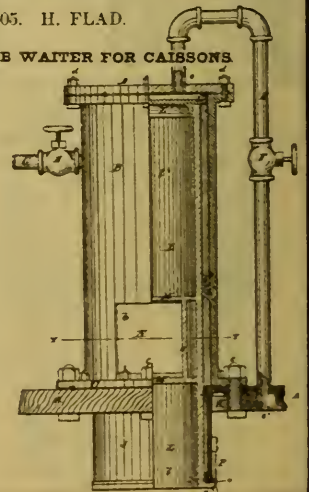
109,499. J. S. DICKASON.
COTTON PLANTER.109,500. W. DUCHEMIN. MACHINE
FOR MOLDING, ROUNDING, AND
CHANNELING BOOT AND SHOE SOLES

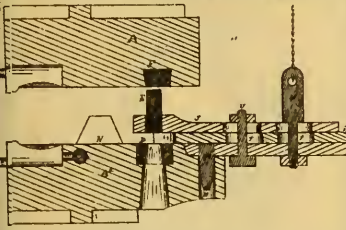
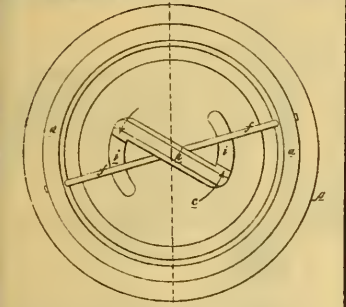
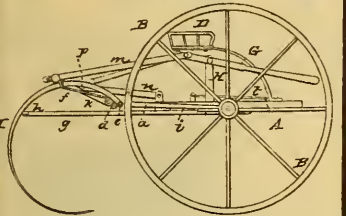
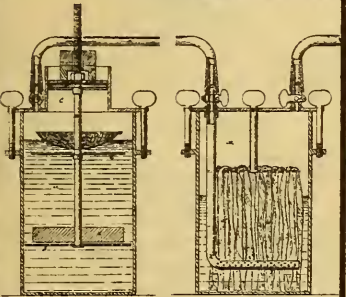
109,503 S. M. FIREY. SEEDING MACHINE

109,504. C. FISHER.
METALLIC SLEEPER FOR RAILWAYS.

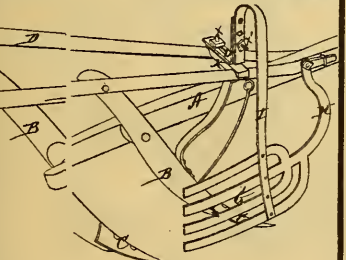
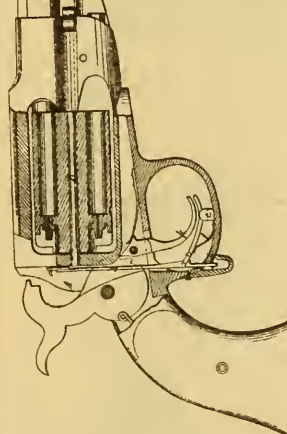
109,505. H. FLAD.

DUMB WAITER FOR CAISSONS.

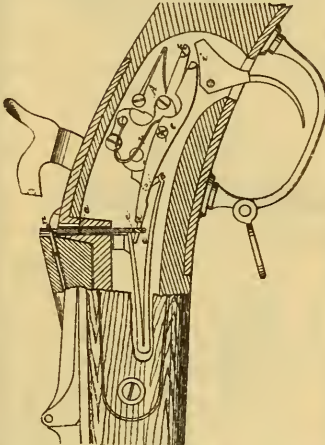


109,506. W. FORSHAW
DIE FOR MAKING CHORD BARS.109,507. W. GALLOWAY
SECURING THE TOPS OF FRUIT JARS.109,508. C. GODFREY AND
R. LIGHTHALL PROTECTING
IRON AGAINST CORROSION109,509. H. N. GREEN.
HORSE HAY RAKE.109,510 A. W. HALL APPARATUS FOR
THE MANUFACTURE OF
ILLUMINATING GAS.

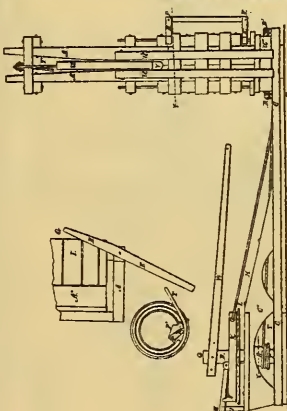
109,511. R. HARPSTER CLOD FENDER.

109,512. M. HARRINGTON
GATE AND DOOR SPRING.109,513. R. D. HAY.
SAFETY GUARD FOR PISTOLS.

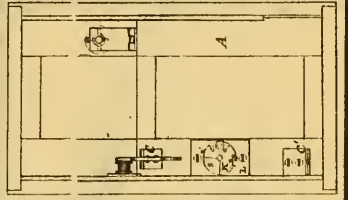
109,514. R. D. HAY. GUN LOCK.



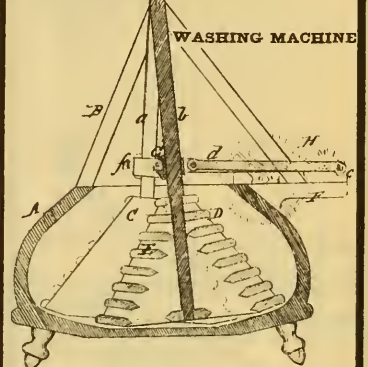
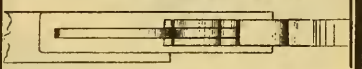
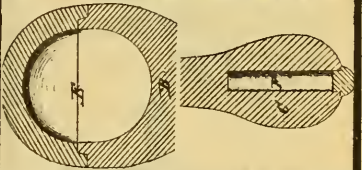
109,515. E. HILL. BALING PRESS.



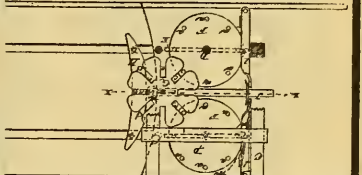
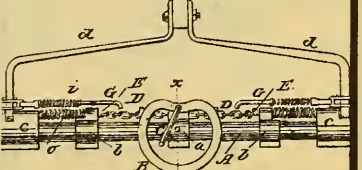
109,516. J. HUGHES SASH LOCK



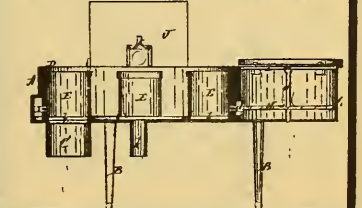
109,517. G. W. HUNGERFORD.

109,518. N. JOHNSON
SCHOOL DESK AND SEAT.109,519. D. B. KEITH.
STOCKING LAST AND YARN AND
NEEDLE HOLDER COMBINED.

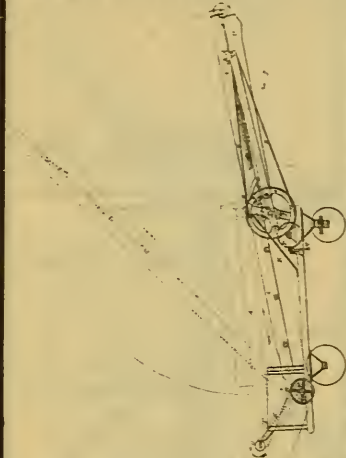
109,520. M. KIRSCH BRIDGE GATE

109,521. L. O. KUNZE
APPARATUS FOR DETACHING POLES
AND SHAFTS FROM VEHICLES.

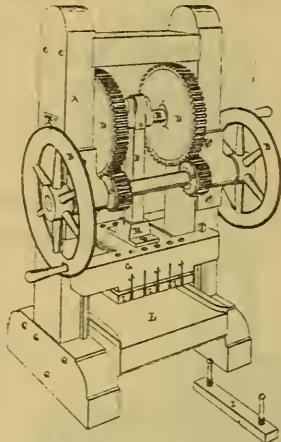
109,522. C. LAMB GRAIN REGISTER.



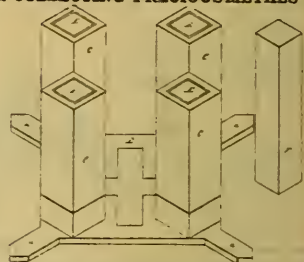
109,523. S. LEWIN ELEVATOR
FOR RAISING AND STACKING STRAW.



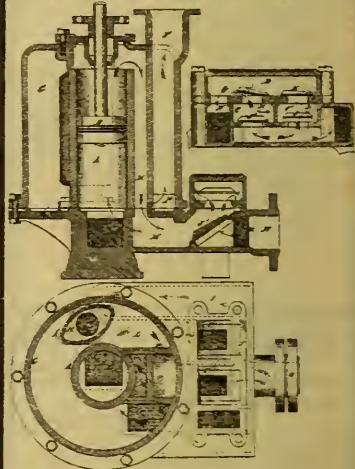
109,520. W. MANNING
MACHINE FOR MAKING CORN CAKE



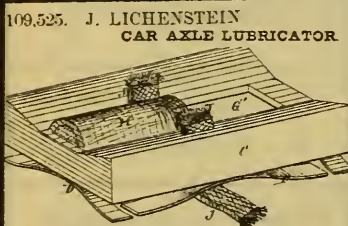
109,533 J. T. McDOUGALL APPARATUS
FOR COLLECTING PRECIOUS METALS



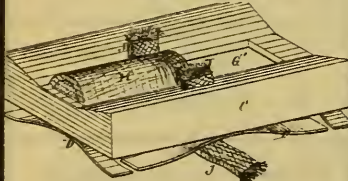
109,534. J. H. McGOWAN PUMP.



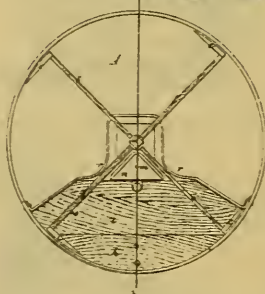
109,524. R. S. LEWIS.
CONCRETE COMPOSITION FOR WALKS
FLOORING, &c



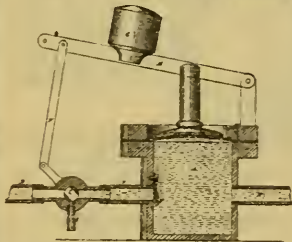
109,525. J. LICHENSTEIN
CAR AXLE LUBRICATOR



109,530. T. E. MARABLE.
ANIMAL TRAP.



109,526. N. C. LOCK
WATER PRESSURE REGULATOR



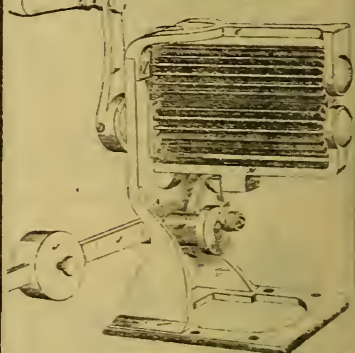
109,531. J. MARTIN SLEIGH.



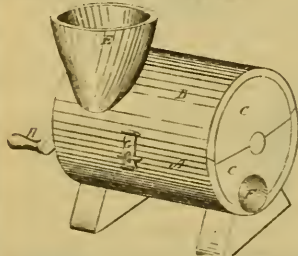
109,532. W. McCORMICK
AWNING FOR HORSES



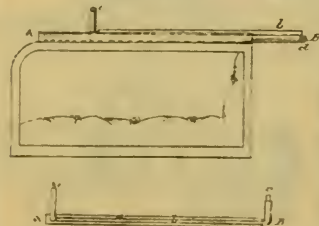
109,535. W. P. McKEE.
FLUTING MACHINE



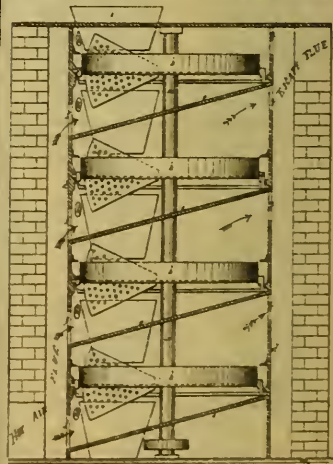
109,527. J. LYTCH CIDER MILL.

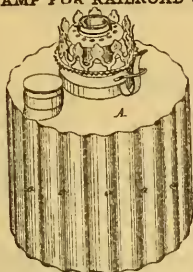


109,528. O. E. MALLORY.
SHIFTING CARRIAGE TOP

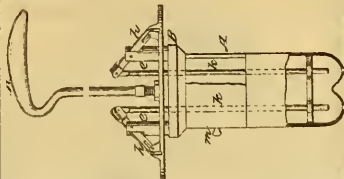
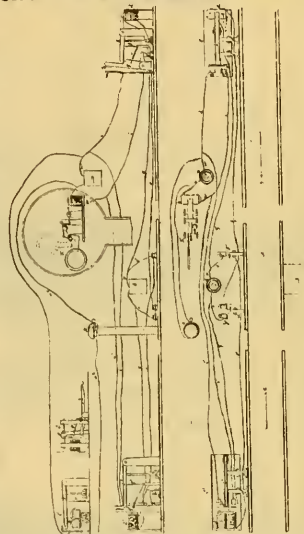
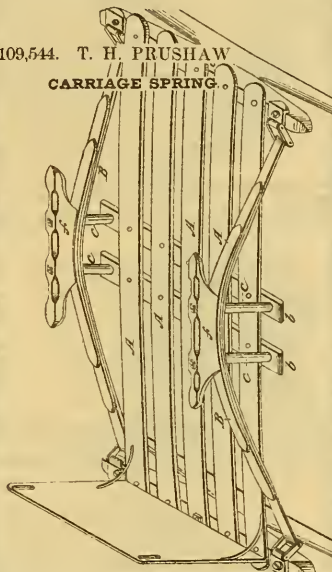
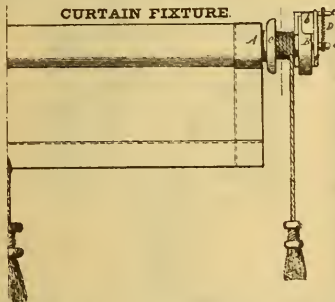
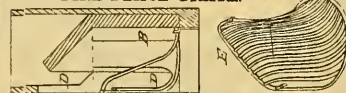
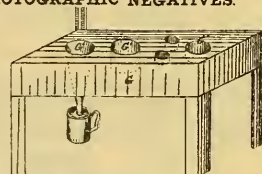
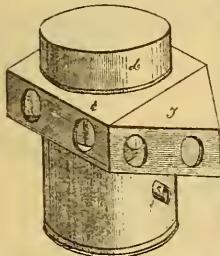


109,536. H. MERRILL. GRAIN DRIER.

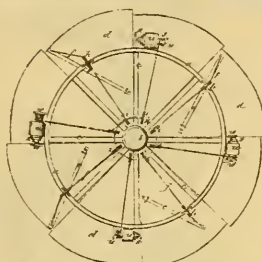
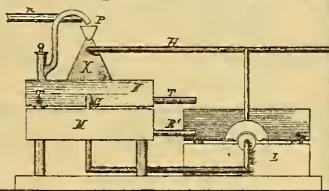


109,537. R. S. MERRILL
LAMP FOR RAILROAD CARS

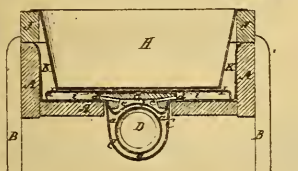
109,543. G. H. PEEK. CORN PLANTER.

109,549. W. ROBINSON ELECTRO
MAGNETIC SIGNALING APPARATUS
FOR RAILROAD CROSSINGS. &c.109,538. E. METS AND W. B. GEDDES
BEDSTEAD FASTENING.109,544. T. H. PRUSHAW
CARRIAGE SPRING.109,539. M. H. MOSMAN
CURTAIN FIXTURE.109,550. J. S. RUNYAN
FIRE PLACE GRATE.109,551. E. RYE. MODE OF PRODUCING
LITHOGRAPHIC COPIES FROM
PHOTOGRAPHIC NEGATIVES.109,540. P. MUNZINGER
CENTER SEAL FOR GAS WORKS

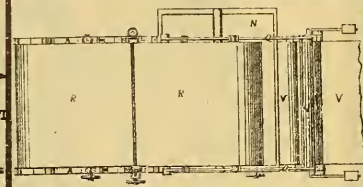
109,545. A. R. RANDAL WINDMILL.

109,546. D. REYNOLDS AND
J. W. PAIGE MANUFACTURE OF SALT

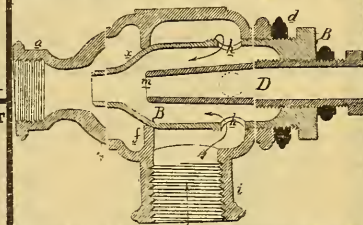
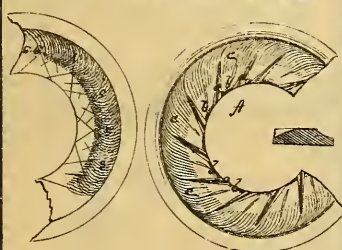
109,541. W. H. OBITTS CHEESE VAT.



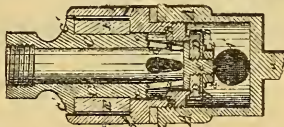
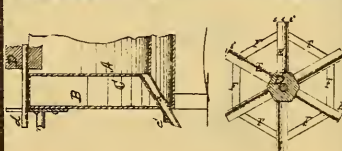
109,552. P. SCANLAN PAPER MACHINE



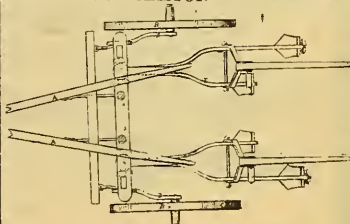
109,553. T. H. SCHRIEBER. EJECTOR.

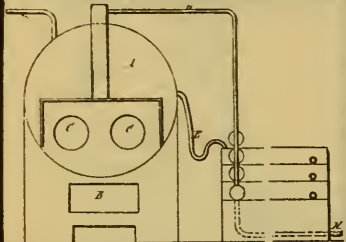
109,542. G. AND H. O'CONNOR
MILLSTONE DRESS.

109,547. A. RICHMOND, JR. HYDRANT

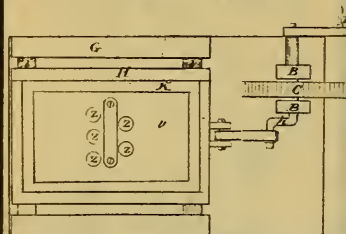
109,548. E. F. RING APPARATUS
FOR STIRRING AND COOLING LARD.

109,554. J. B. SEXTON CULTIVATOR.

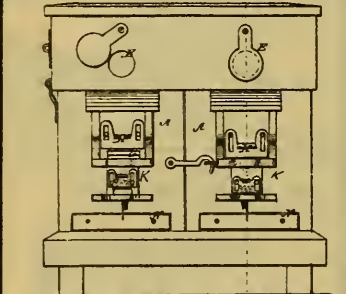
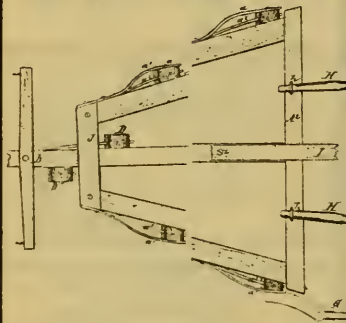
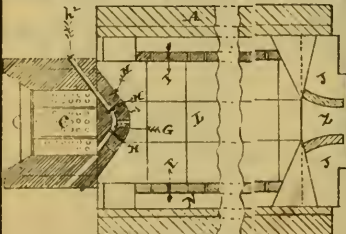
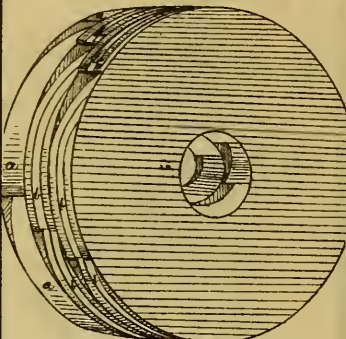
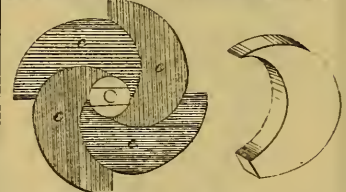
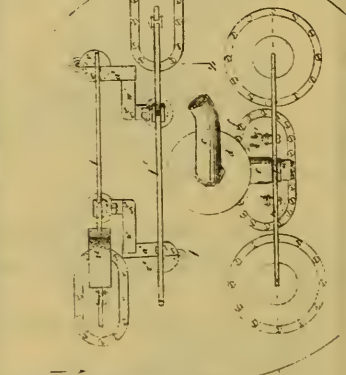
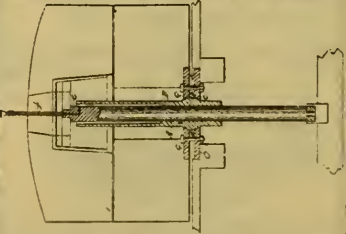


109,555. C. A. SHEPARD
EVAPORATING SALT BRINE

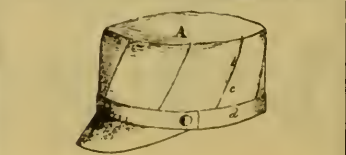
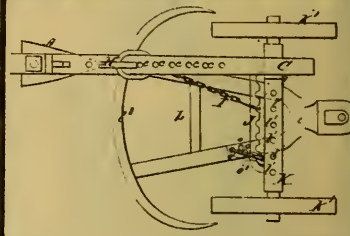
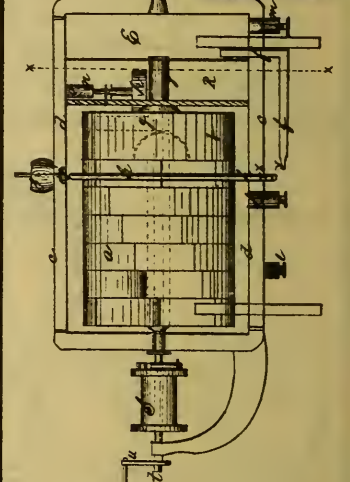
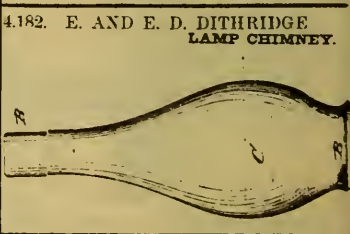
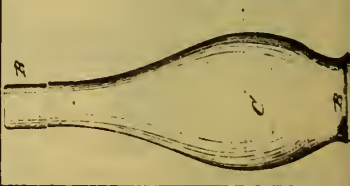
109,556. B. J. SMITH CHURN.



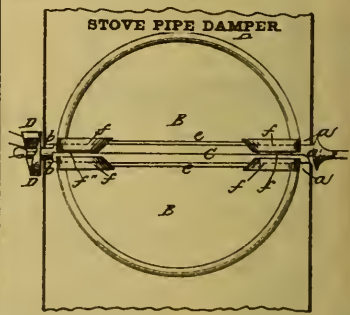
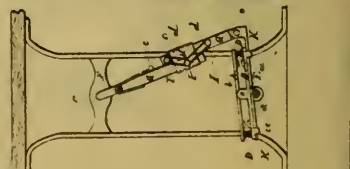
109,557. U. A. SPRINGERBEE HIVE.

109,558. J. R. THOMAS
COTTON CULTIVATOR AND FLOW.109,559. J. G. TROTTER
FURNACE FOR DESULPHURIZING ORES109,560 F. TRUMPLINK FOR
OPERATINGTHE ANNULARSERIES OF
GATES FOR TURBINEWATER WHEELS109,561. J. H. VAN HOUTEN
AIR CARBURETING WHEEL109,562. J. H. VAN HOUTEN
APPARATUS FOR CARBURETING AIR.109,563. W. W. WALTON
SHOE FASTENING FOR SHOE BOXES.109,564. A. WERCKMEISTER
LIQUID METER.109,565. C. T. WESTON
MILL BUSH AND OTHER SPINDLES.

109,566. P. S. WHITE PAPER CAP

109,567. J. ZOEBERLEIN
CARRIAGE ATTACHMENT FOR FLOWS109,568. J. H. VAN HOUTEN
GAS MACHINE.4,181. F. BECK.
COMPOUND FOR COLORING AND
ORNAMENTING PAPER AND OTHER
FABRICS AND MATERIALS4,182. E. AND E. D. DITHRIDGE
LAMP CHIMNEY.

4,183. G. B. HALSTEAD.

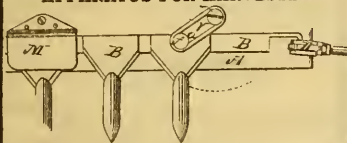
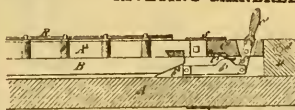
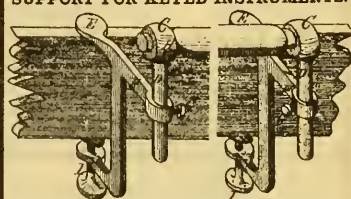
4,184. B. C. POLE.TREADLE FOR
SEWING AND OTHER MACHINES.

ILLUSTRATIONS OF PATENTS

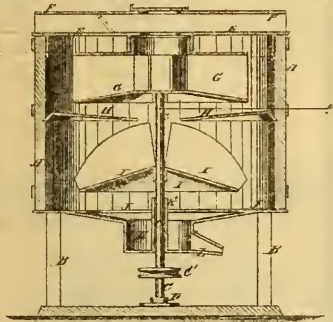
ISSUED FROM

THE UNITED STATES PATENT OFFICE

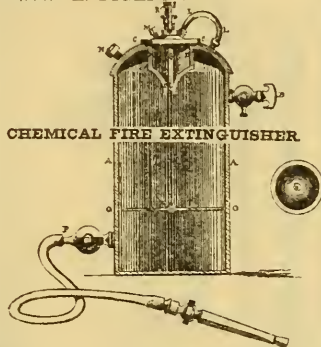
NOVEMBER 29, 1870.

109,569. J. L. ABELL. CUTTING
APPARATUS FOR HARVESTERS109,575. J. BERRY
RIVETING MANDREL109,582. L. BUCHBERGER. ARM
SUPPORT FOR KEYED INSTRUMENTS.

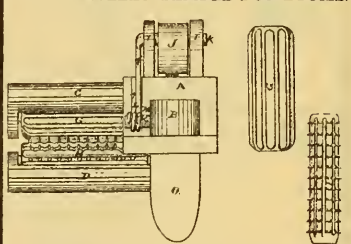
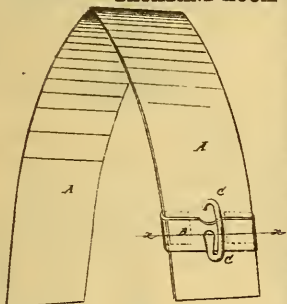
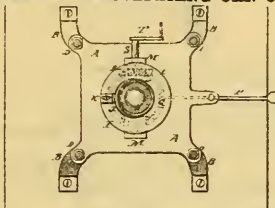
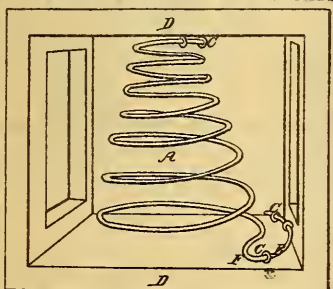
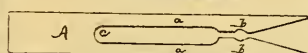
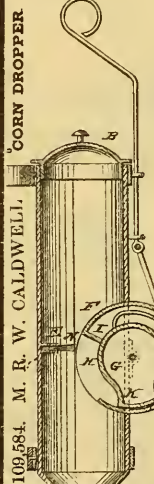
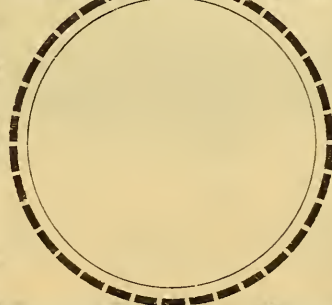
109,570. H. J. BALL. RUBBER CEMENT.

109,571. J. W. AUSTIN
APPARATUS FOR TREATING CANE
JUICE WITH SULPHUROUS ACID GAS.

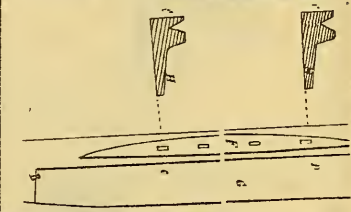
109,576. E. BIGELOW



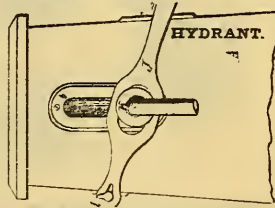
CHEMICAL FIRE EXTINGUISHER.

109,583. W. H. BURNS
ROLLER TEMPLE FOR LOOMS.109,572. H. BEAGLE, JR.
BACKBAND HOOK.109,577. W. B. BISHOP
MACHINE FOR SOLDERING CAN CAPS.109,578. C. BOCKING COMPOSITION
FOR THE MANUFACTURE
OF FOOT AND SHOE HEELS.109,579. A. O. BOURN.
ELASTIC ROLLER FOR WRINGERS, &c.109,573. W. L. BEARDSLEY
SPIRAL SPRING FOR BEDSTEADS109,580. G. BRADLEY AND
N. A. WALKER CLOTHES PIN.109,581 J. DE WITT BRINCKERHOFF
AND J. DUTHIE CONSTRUCTION OF
GLOBES, MAPS, &c. FOR SCHOOLS.109,584. M. R. W. CALDWELL.
CORN DROPPER.109,585. C. CARLETON
SEWING MACHINES.

109,586. E. CATE. HORSESHOE BAR.



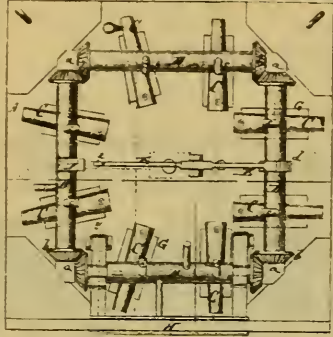
109,587. E. CLAMPITT



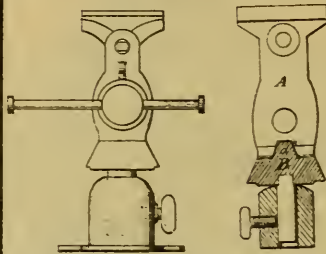
HYDRANT.

109,574. W. BENNETT
SHUTTLE FOR SEWING MACHINES.

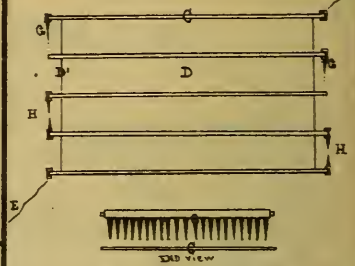
109,588. E. T. CLEGG.

BURGLAR ALARM.

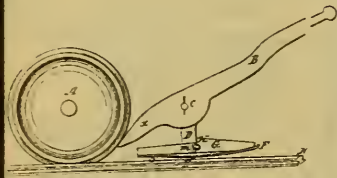
109,594. O. DEAN.

COMBINED VISE AND DRILL.

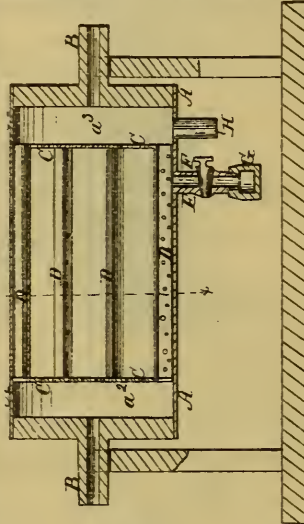
109,601. C. F. DUNDERDALE.

APPARATUS FOR THE MANUFACTURE OF OZONE.

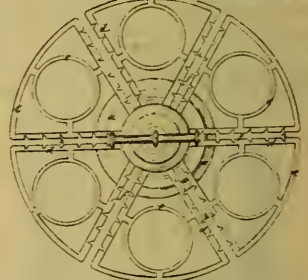
109,589. C. COLLIER.

GLOBE FOR GAS LIGHTS.109,590. M. G. COLLINS **COMBINED RAILROAD JACK AND PINCH BAR.**

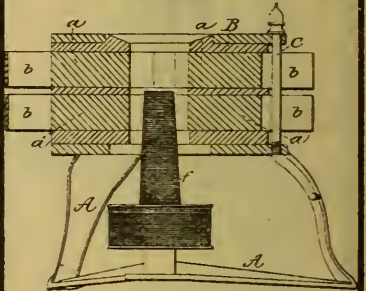
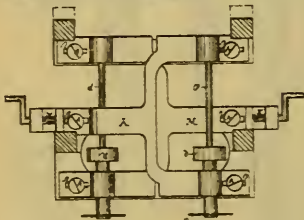
109,595. L. DEAN.

BOILER FOR PREPARING PAPER PULP.

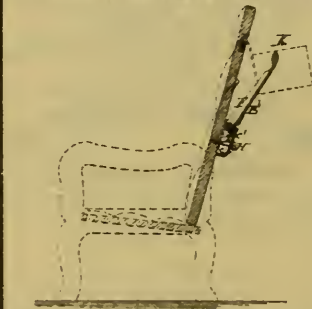
109,602. L. EVANSCASTER AND SPOON HOLDER COMBINED



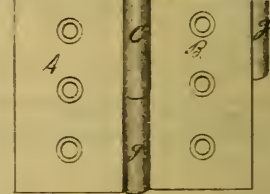
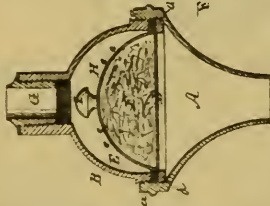
109,603. M. G. FARMER

THERMO ELECTRIC BATTERY.109,591. P. D. CUMMINGS.
MACHINE FOR MAKING KEY BOARDS FOR WOOD PAVEMENTS.

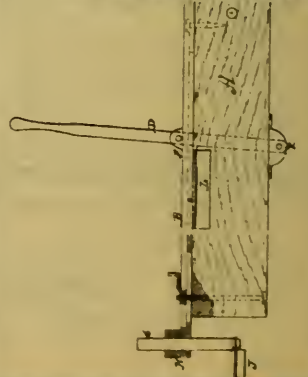
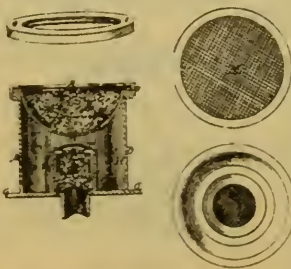
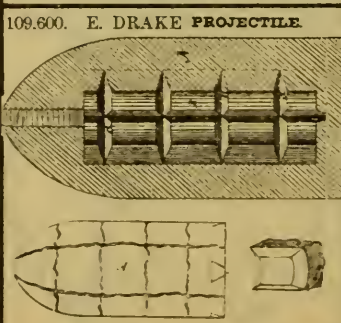
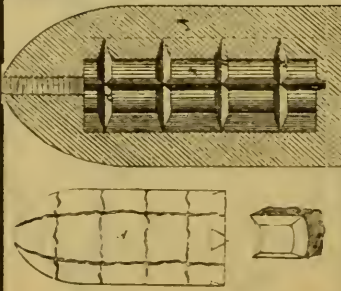
109,596. L. DEAN.

PREPARATION OF STRAW FOR THE MANUFACTURE OF PAPER.109,597. E. J. DE SMEDT.
ASPHALT PAVEMENT109,598. J. A. DIXON
HOOK ATTACHMENT FOR SEATS

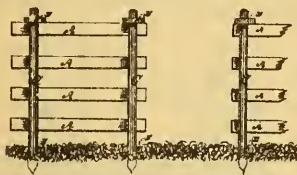
109,604. G. W. FIELD.

REVERSIBLE BUTT.109,592. G. CURTIS. **FILTER.**

109,605. R. FITTS.

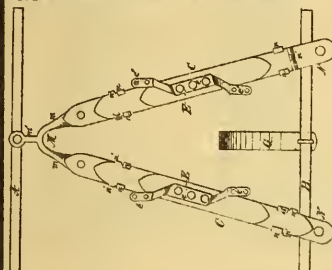
LOG GUIDE FOR CIRCULAR SAW MILLS.109,593. G. CURTIS **FILTER.**109,599. R. DOBBINS **HEALING SALVE.**109,600. E. DRAKE **PROJECTILE.**

109,606. R. J. FLANNER FENCE.

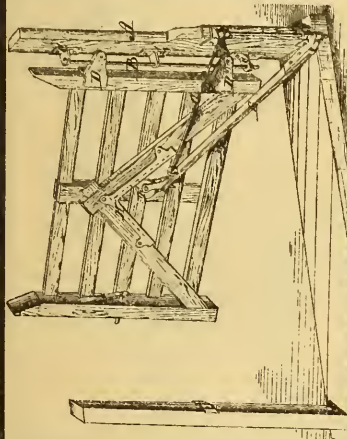


109,607. W. H. FOYE, MANUFACTURE OF ARTIFICIAL STONE.

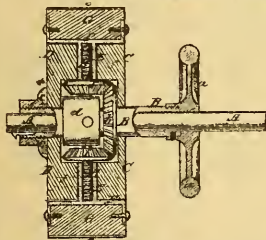
109,608. G. E. GARRETSON ELASTIC RUNNING GEAR FOR CARRIAGES.



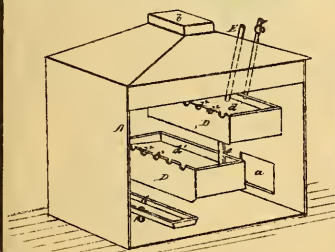
109,609. E. GEMBERLING GATE.



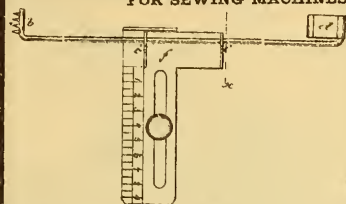
109,610. J. GOODEN POLISHING MACHINE.



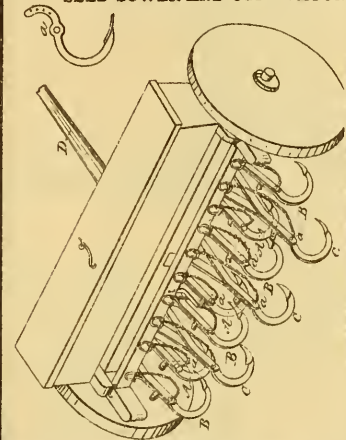
109,611. J. P. GREELEY APPARATUS FOR AGING WHISKY AND OTHER SPIRITS.



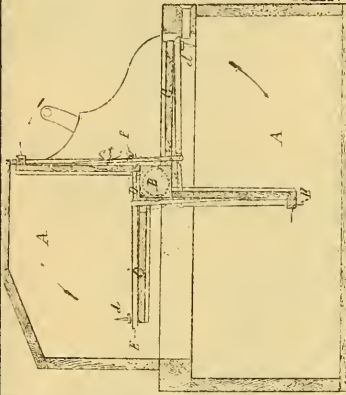
109,612. F. T. GRIMES ATTACHMENT FOR SEWING MACHINES.



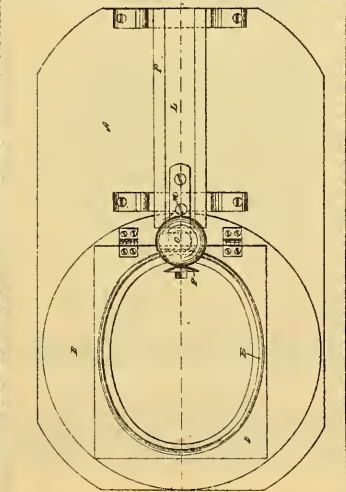
109,613. H. L. HALL COMBINED SEED SOWER AND CULTIVATOR.



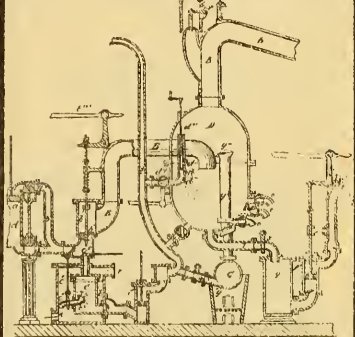
109,614. W. R. HAMPTON ANIMAL TRAP.



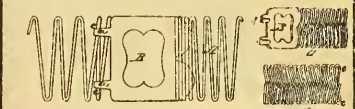
109,615. J. HAWORTH PHOTOGRAPHIC PRINT CUTTER.



109,616. J. HOUPT STEAM GENERATOR.



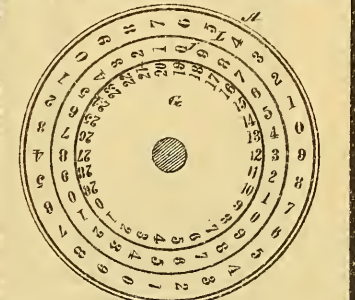
109,617. H. A. HOUSE GARTER.



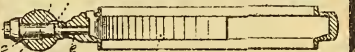
109,618. H. A. HOUSE. AUTOMATON ROPE WALKER.



109,619. H. A. HOUSE. ADDING AND SUBTRACTING REGISTER.

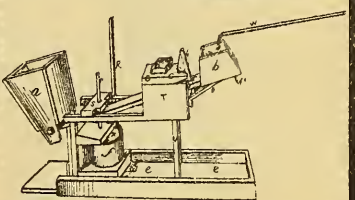


109,620. A. HUMBERT COMBINING KEYS WITH WATCHES.

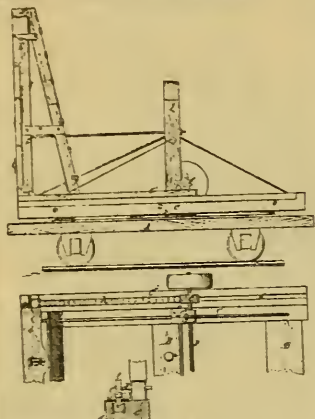


109,621. C. B. HUTCHINS. MANUFACTURE OF PAPER.

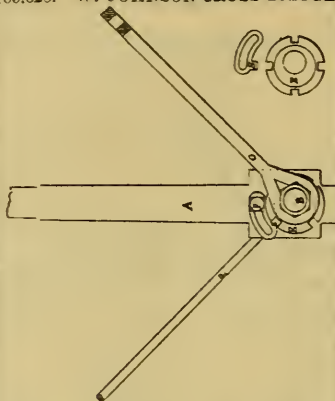
109,622. T. H. HUTCHINSON WATER ELEVATOR.



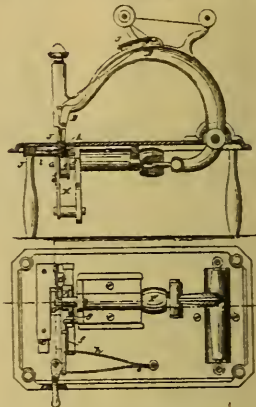
09.623. J. HAY PILE DRIVER.



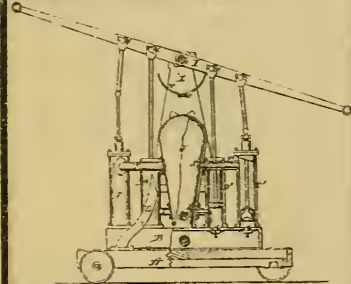
109.628. W. JOHNSON TRUSS BRIDGE.



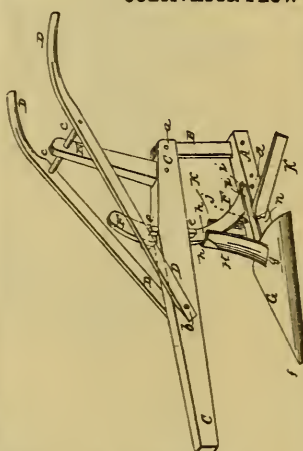
109.632. I. W. LAMB
SEWING MACHINE



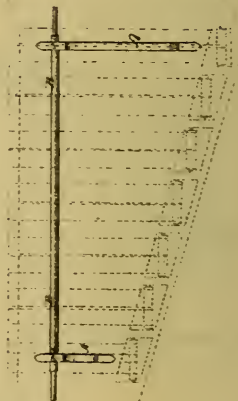
109,624. J. 1CARD. PUMP.



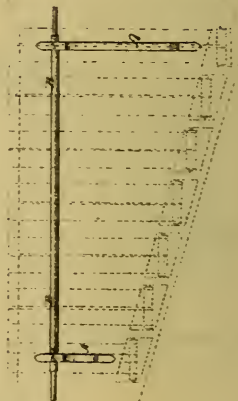
109.629. T. F. JONES.
CULTIVATOR PLOW



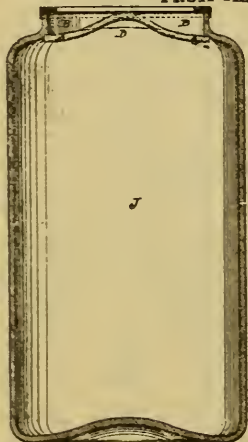
109,633. A. LAWE. ELECTROPLATING
IRON AND STEEL WITH SILVER.



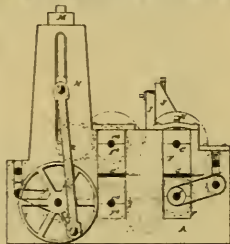
109,634. W. A. LAWTON FEED
MECHANISM FOR CARDING MACHINES.



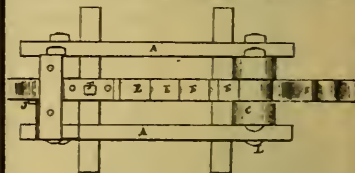
109,625. C. G. AND W. L. IMLAY
FRUIT JAR.



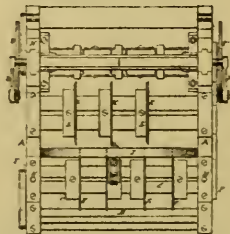
109,630. J. M. KEEN. MACHINE
FOR CUTTING, SCORING, AND
CORNERING PAPER FOR BOXES.



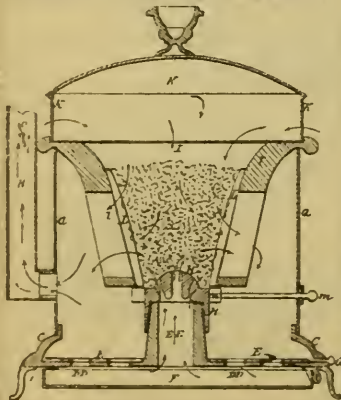
109,635 S. C. LEONARD LIFTING JACK



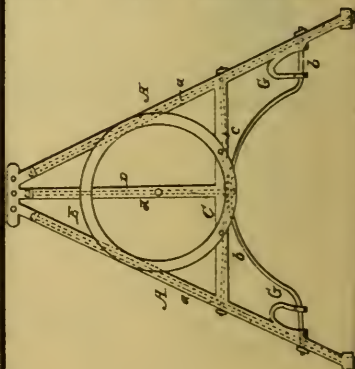
109,626. E. INGRAHAM
EMBELLISHMENT OF GLASS



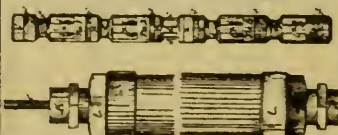
109.627 G. B. ISHAM HEATING STOVE.

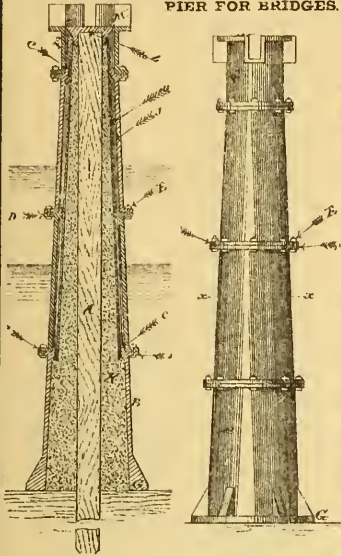


109,636. J. LE ROY FIFTH WHEEL

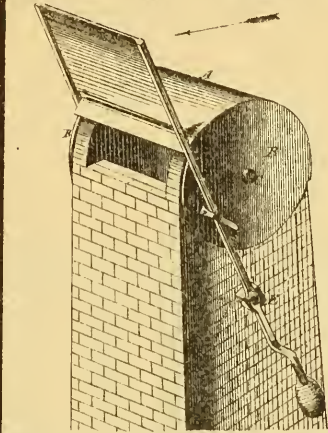
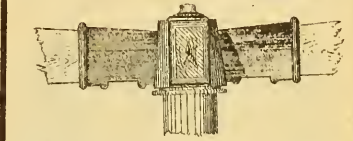


109.631. H. K. KENYON PUMP.

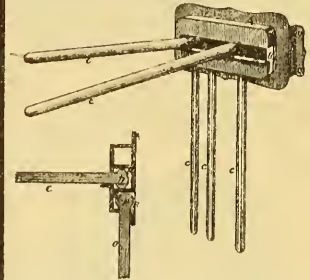
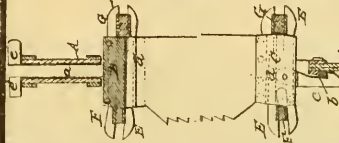


109,637. C. H. LILIENTHAL.
PIER FOR BRIDGES.

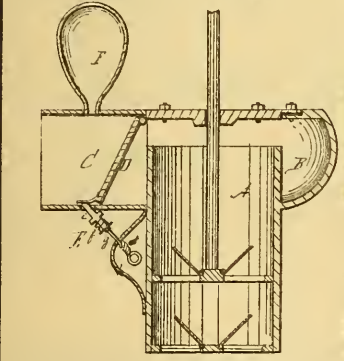
109,642. M. E. MEAD CHIMNEY TOP.

109,647. W. N. AND A. K. MOORE.
CLOTHES DRIER.

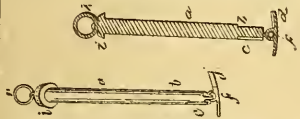
109,648. F. MYERS. TOWEL RACK.

109,643. O. C. MEIGS.
GAUGE FOR GANG SAWS.109,638. A. AND E. LISTER AND
C. J. EAMES.
DEODORIZING THE AIR AND GASES IN
FAT RENDERING, BONE BOILING, &c.

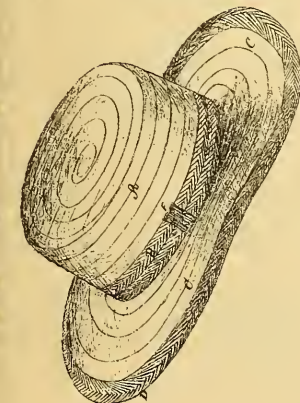
109,639. C. MARKLEY PUMP.



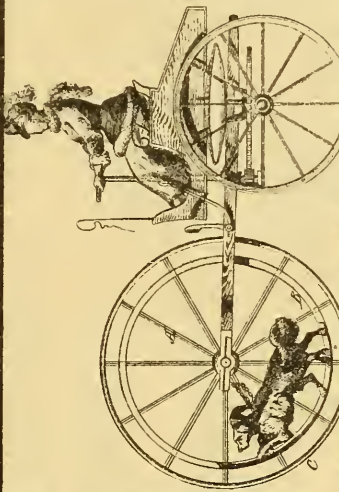
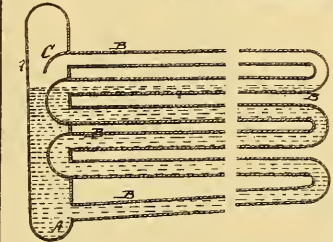
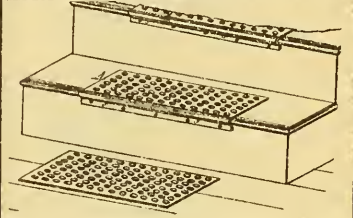
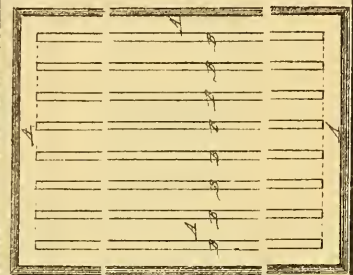
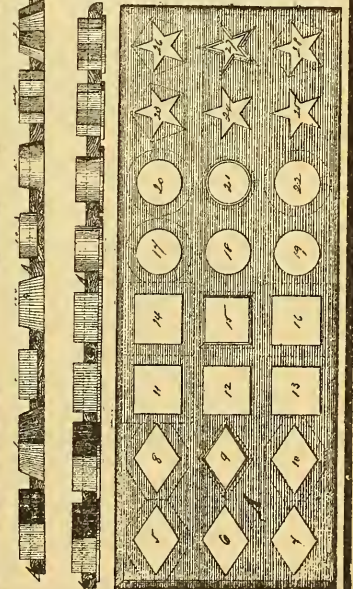
109,640. F. G. McCLELLAND BOLT.

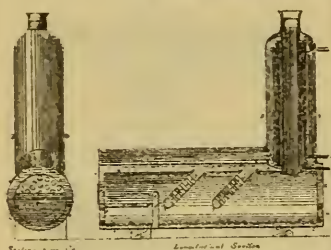
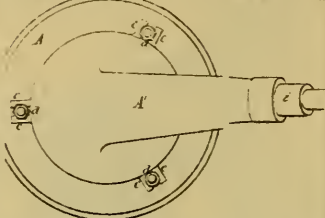


109,641. J. W. MCGILL. HAT.

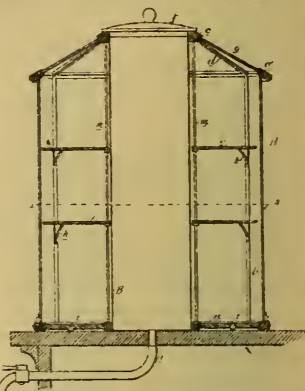
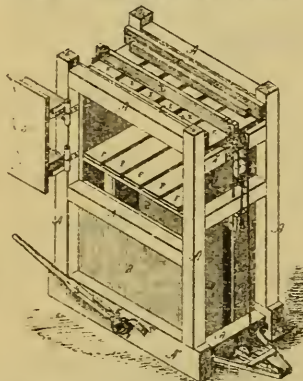


109,644. F. H. C. MEY. VEHICLE.

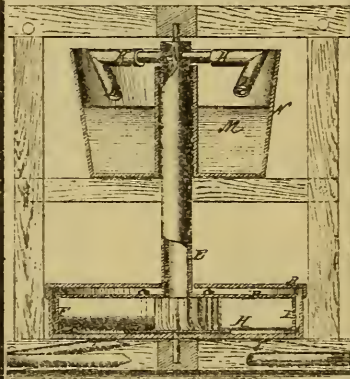
109,645. J. A. MILLER.
STEAM GENERATOR.109,646. C. A. MOORE.
MANUFACTURE OF GLASS ARTICLES.109,649. P. W. NEEFUS.
METALLIC AND ELASTIC STAIR PLATE109,650. P. W. NEEFUS.
METALLIC AND ELASTIC DOOR MAT.109,651. P. W. NEEFUS.
STAIR AND FLOOR PLATE.

109,652. E. NEUMANN
STEAM GENERATOR.109,658. T. D. AND T. S. PHILLIPS
ENAMELED CAST IRON RETORT.

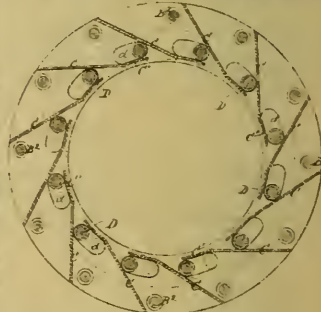
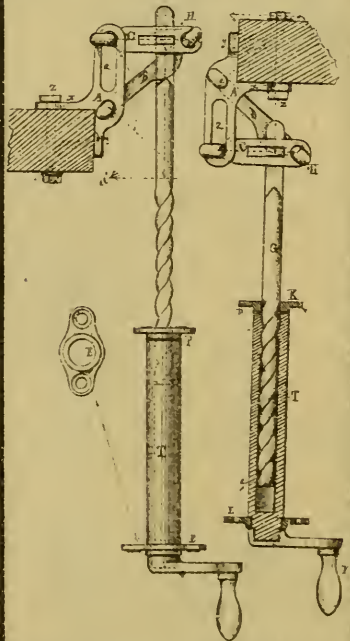
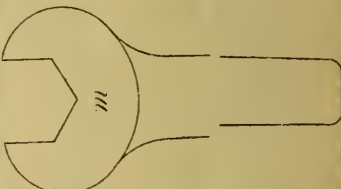
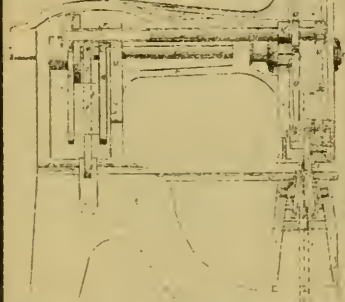
109,663. P. PRICE SHOW CASE

109,653. W. R. NEWMAN
HAND POWER BALING PRESS.

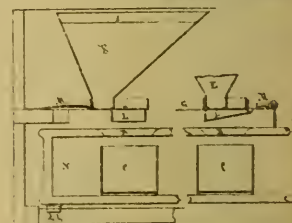
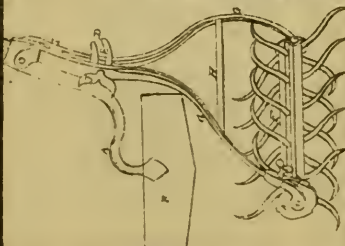
109,659 J. N. POMMERT STEAM WHEEL



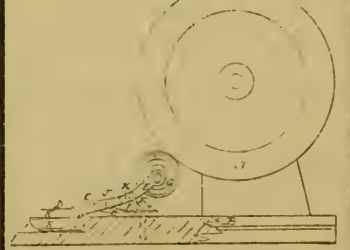
109,664. D. REYNOLDS WATER WHEEL

109,660. W. PORTER
MATCH FOR CIGAR LIGHTERS109,661. C. A. POTTER
SHUTTER WORKER109,665. J. RICHARDS
MANUFACTURE OF WRENCHES.109,655 J. PALMER
SEWING MACHINE

109,666 R. RICHARDS SAFETY SWIVEL

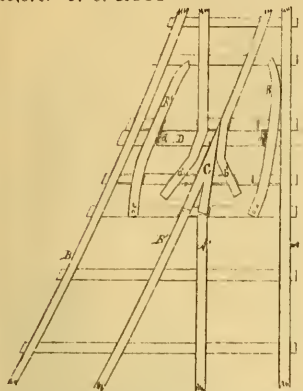
109,667. G. W. ROBERTS.
EARTH CLOSET109,656 C. F. PANKIN COMPOUND
FOR TANNING HIDES AND SKINS.109,657 L. AND F. PERROT AND
C. H. BATES COMBINED GARDEN TOOL109,662 W. E. PRALL AND A. B. RAND
CLOTH CUTTING ATTACHMENT FOR

SEWING MACHINES.

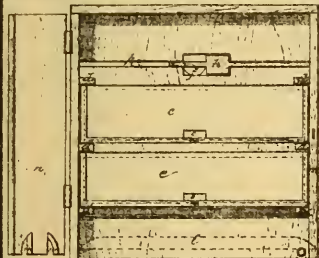
109,668. ROGERS AND E. K. SPERRY
CLOTH GUIDING ATTACHMENT FOR
SEWING MACHINES.

109,669. J. L. ROWLAND
MANUFACTURE OF ARTIFICIAL STONE

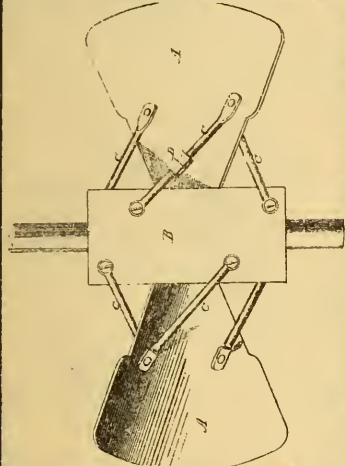
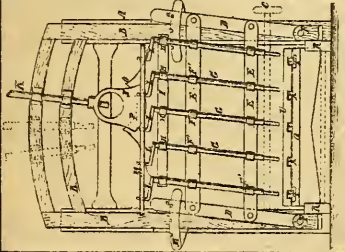
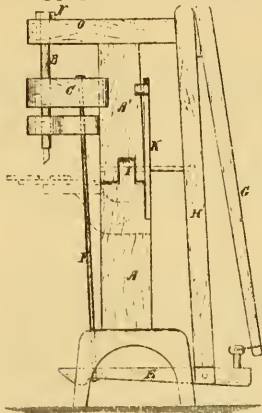
109,670. J. C. RUPP RAILWAY FROG

109,671. S. RUST, JR.
COCK FOR CARBURETERS, &c.

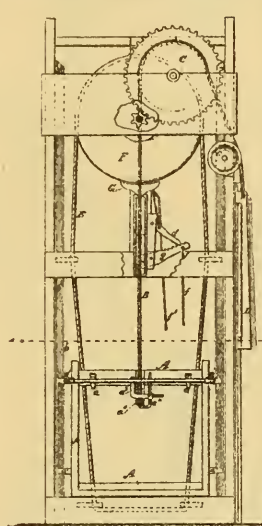
109,672. W. A. RUTH, BEE HIVE.



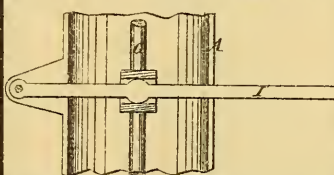
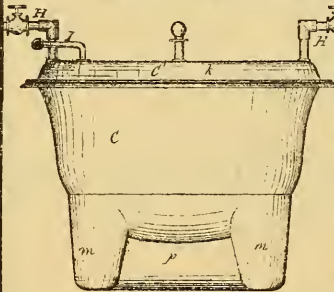
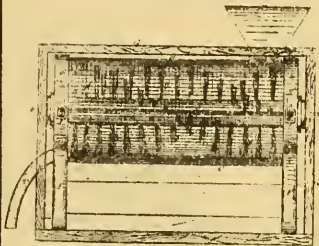
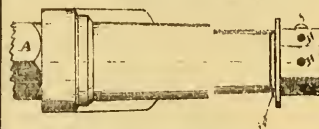
109,673. J. SALTER PROPELLER

109,674. J. B. SCHMID
DOVETAILING MACHINE.109,675. J. B. SCHMID
DOVETAILING MACHINE.

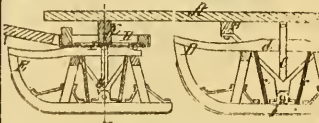
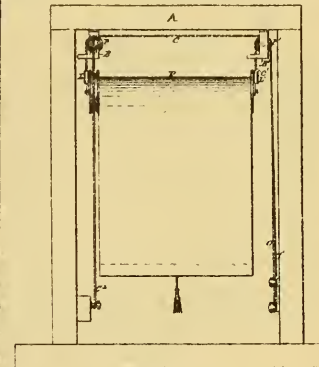
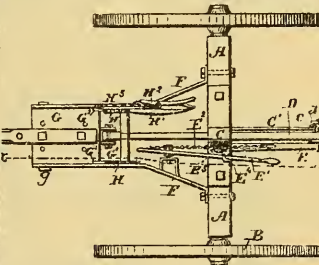
109,676. G. SCOTT, ELEVATOR

109,677. A. SEITZ.
CONFECTIONERY FOR DRUGGISTS.

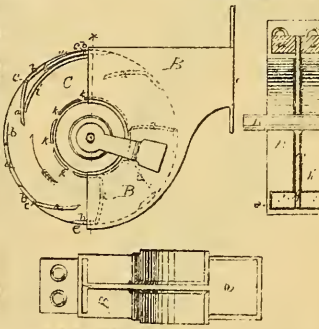
109,678. W. SHEARER, PUMP.

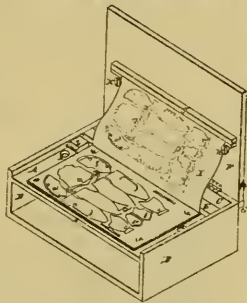
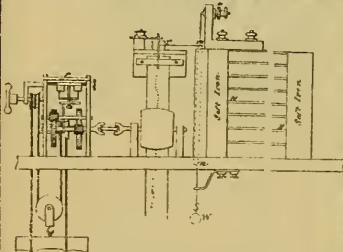
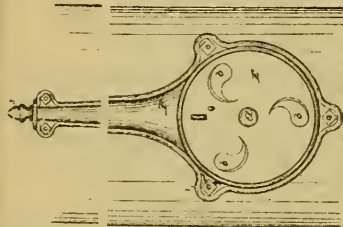
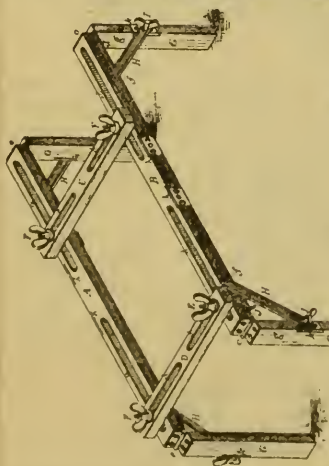
109,679. E. E. SILL AND
A. H. BENNETT.
AGRICULTURAL CALDRON.109,680. S. A. SLOCOMB
GRAIN AND FRUIT CLEANER.109,681. A. E. SMITH
AXLE FOR CARRIAGES

109,682. S. S. SPEAR, SLEIGH.

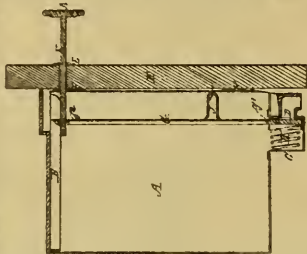
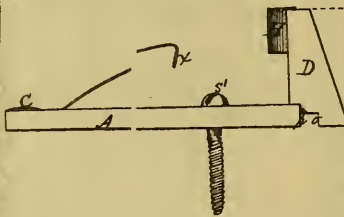
109,683. T. STEWART
CURTAIN FIXTURE.109,684. J. E. SWALLOW.
WHEEL PLOW.

109,685. W. A. TERRY WATER WHEEL

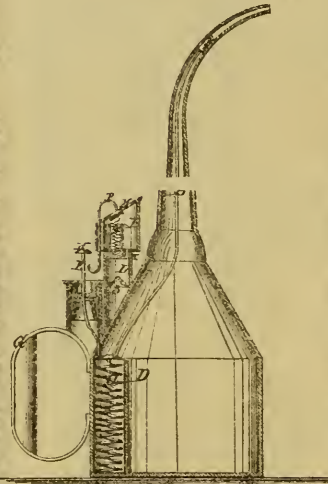


109,686. A. THOMAS.
APPARATUS FOR MARKING CLOTH.109,687. A. THOMAS
APPARATUS FOR MARKING CLOTH.109,688. W. THOMSON
RECORDING INSTRUMENT FOR THE
ELECTRIC TELEGRAPH.109,689. J. S. TOAN.
AUTOMATIC STOVE REGISTER.109,690. J. TONNER.
STRETCHING FRAME.

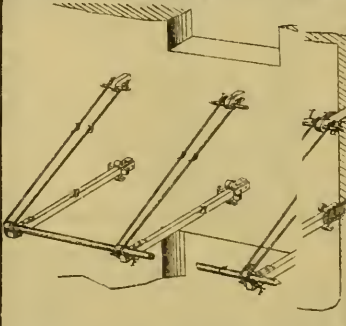
109,691. A. TUMLER SIRUP CAN.

109,692. A. A. VEER
BUFFER AND CATCH FOR DOORS.

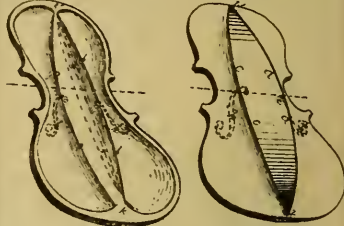
109,693. H. C. WARFEL OIL CAN.



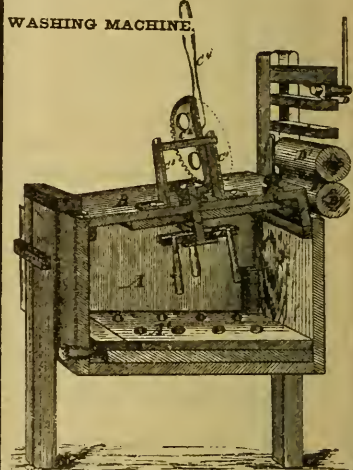
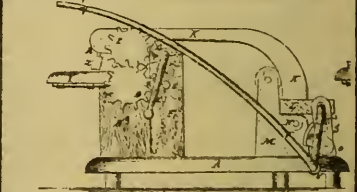
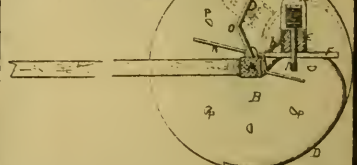
109,694. C. WERNERAWNING FRAME.

109,695. G. WESTINGHOUSE, JR.
ATMOSPHERIC CAR BRAKE PIPES.

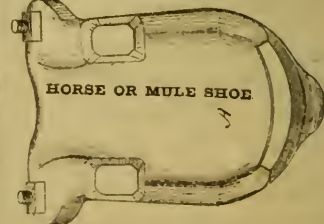
109,696. M. W. WHITE VIOLIN.



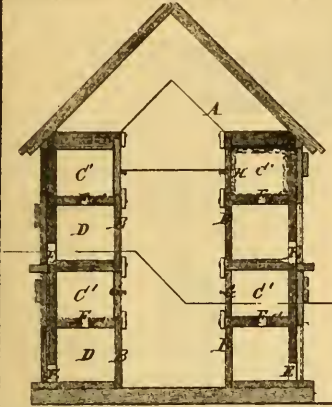
109,697. L. H. WHITNEY.

109,698. G. L. AND L. P. WILD.
DANCING TOY.109,699. S. WILLIAMS
MANGLING AND IRONING MACHINE.109,700. J. E. WISNER
HORSE HAY RAKE.

109,701. J. WONDERLIN

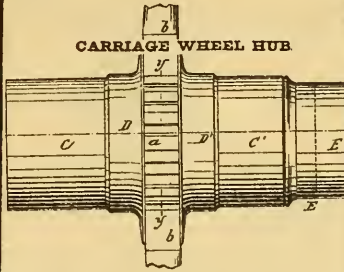


109.702. J. W. WOOD. BEE HOUSE.

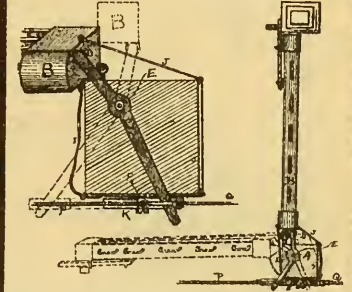
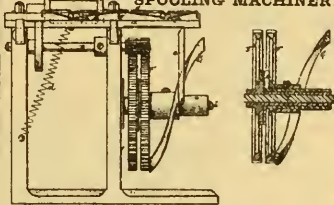


109.707. S. ATHA

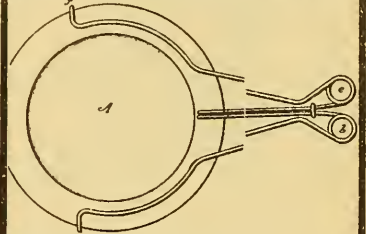
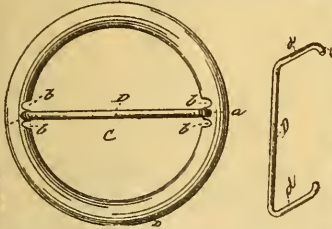
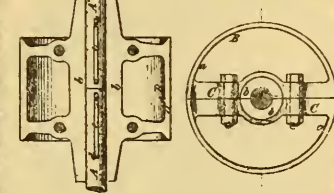
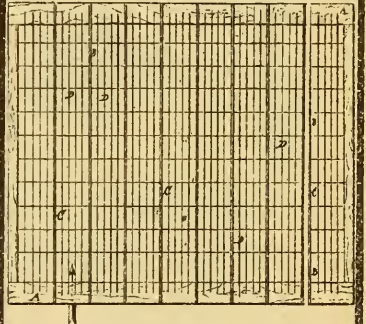
CARRIAGE WHEEL HUB



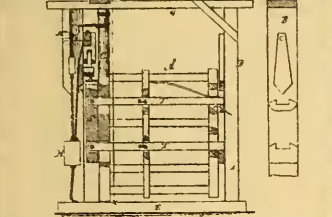
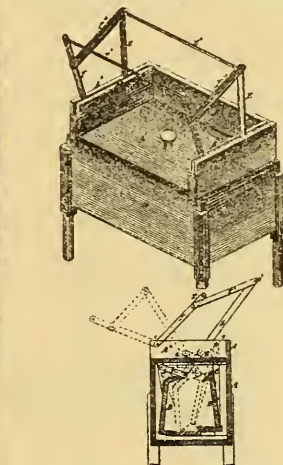
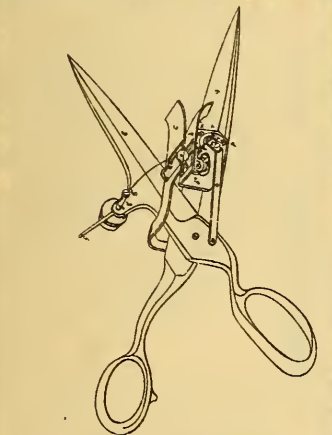
109.713. R. T. BOWNE. GATE.

109.708. J. E. ATWOOD.
TRAVERSE MOTION FOR WINDING AND
SPOOLING MACHINERY.109.714. W. B. BRITTINGHAM
TANNING COMPOSITION.

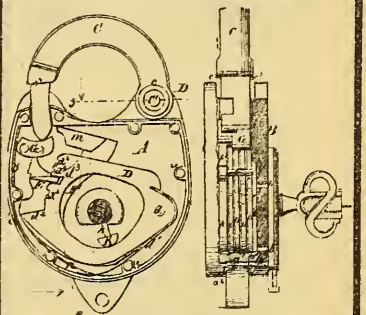
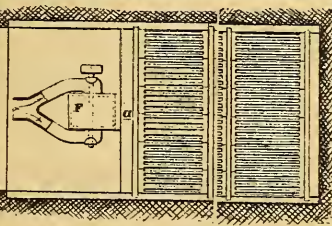
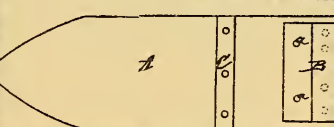
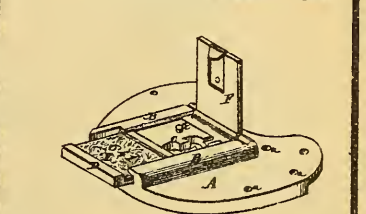
109.715. H. P. BROOKS. PLATE LIFTER.

109.703. T. F. WOODWARD
FASTENING FOR FRUIT JARS.109.709. J. E. ATWOOD.
PULLEY COUPLING.109.716. M. M. COOPER AND
J. W. DONALDSON
RIDDLE FOR SEPARATING GRAIN.

109.704. J. WRIGHT. GATE.

109.710. B. C. BAILEY
WASHING MACHINE.109.705. J. L. YOUNG
SEWING MECHANISM.

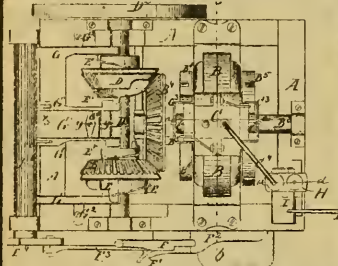
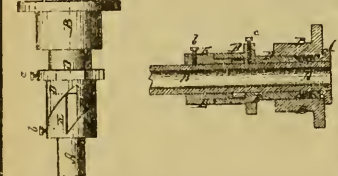
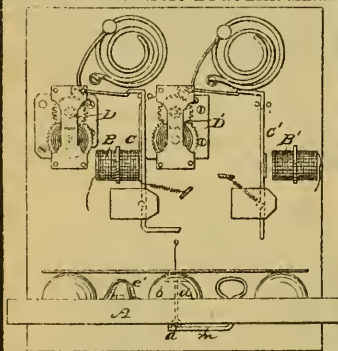
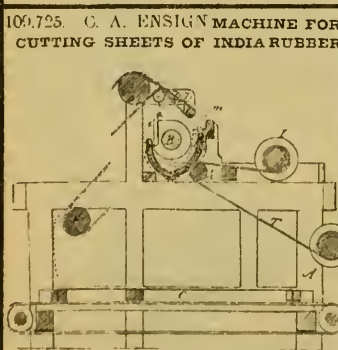
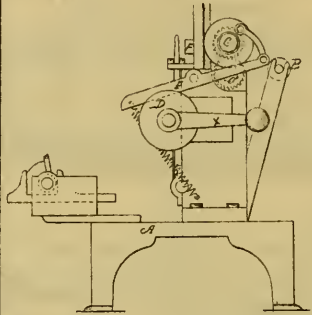
109.717. J. CORBETT PADLOCK

109.706. W. ADAMSON.
DRYING DISINTEGRATED FIBERS.109.712. J. H. BEIDLER.
IRONING BOARD.109.718. J. CORBETT AND
F. W. BROOKS SEAL LOCK

109,719 S. W. CORBIN HARROW TOOTH

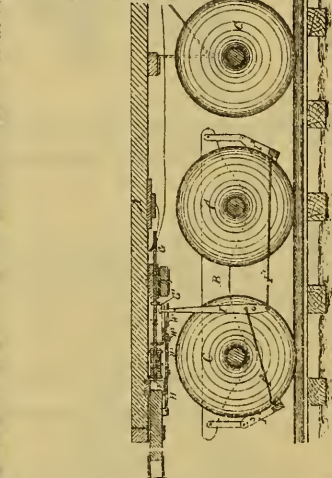


109,720 J. E. DARNALL FLY BRUSH

109,721 J. B. AND S. M. DAVIS
OSCILLATING PISTON ENGINE.109,722 S. DEACON AND J. RUSSELL
PACKING BOX FOR ROTARY STEAM
CYLINDERS.109,723 J. M. DILLE.
ELECTRO MAGNETIC BURGLAR ALARM109,724 E. DUENPELMAN
CONCRETE FOR PAVING AND ROOFING109,725 C. A. ENSIGN
MACHINE FOR JOINING IRREGULAR
SEAMS IN INDIA RUBBER WORK

109,727 F. M. FINNELL

RAILWAY CAR BRAKE

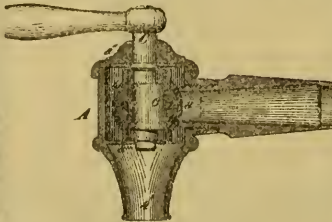
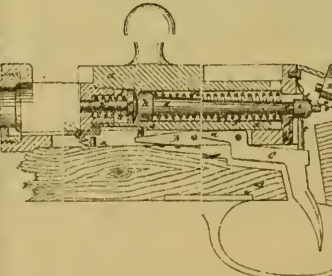


109,728 SUSPENDED.

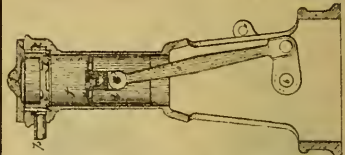
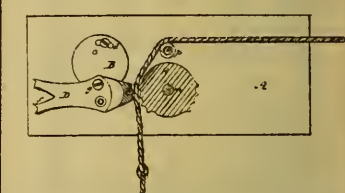
109,729 J. W. FISHER SHOE.



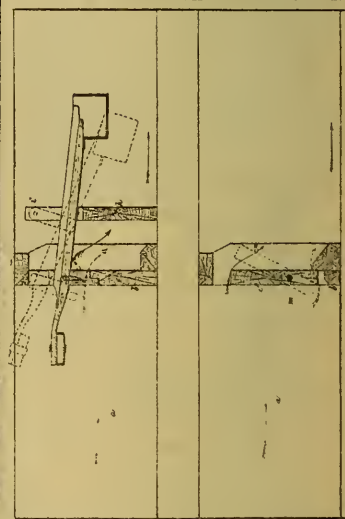
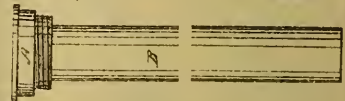
109,730 O. HANKS FAUCET.

109,731 J. HANSON
BREECH LOADING FIRE ARM

109,732 J. F. HASKINS. AIR PUMP.

109,733 B. B. HERRICK
CLOTHES LINE FASTENER

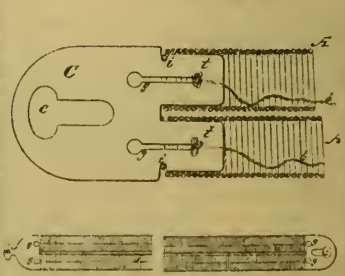
109,734 N. HINCKLEY FLOOD GATE.

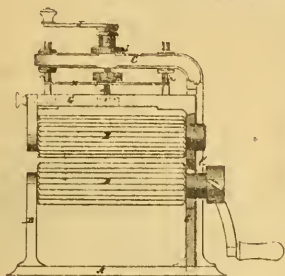
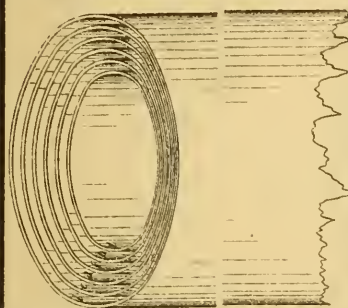
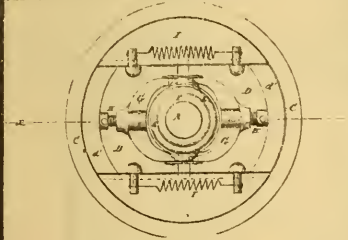
109,735 G. M. HOPKINS AND
J. A. STRAIGHT
SAFETY TUBE FOR LAMPS.

109,736 H. A. HOUSE GARTER

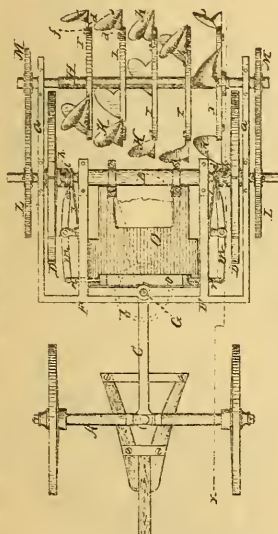


109,737 H. A. HOUSE GARTER

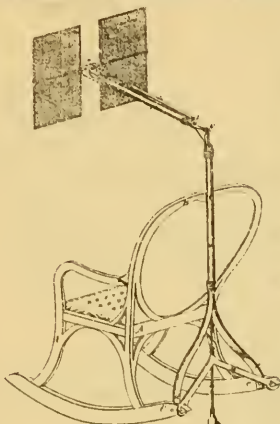
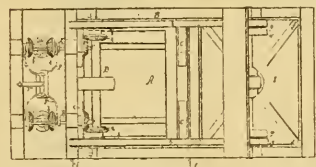
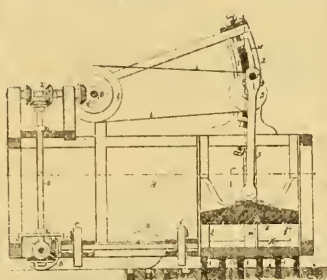
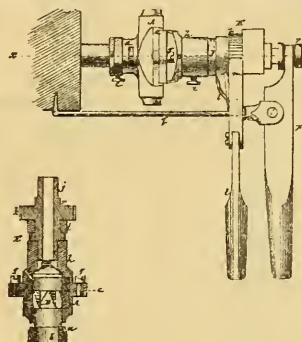
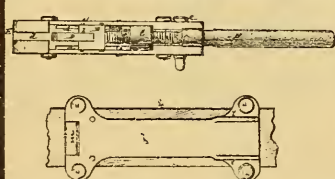
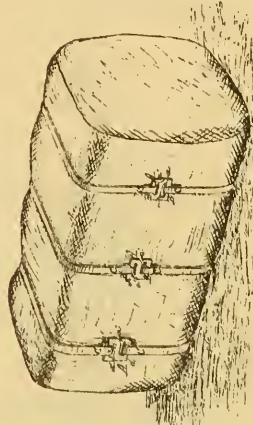


109,738. A. Y. HUBBELL.
FLUTING MACHINE109,739. G. M. HUNTLY.
PACKAGE FOR LARD, BUTTER, &c109,740. W. W. JEROME, S. B. ALGER
AND C. H. SAGE. FRICTION CLUTCH

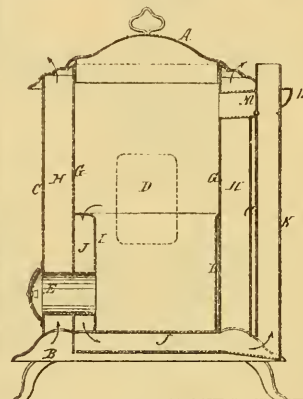
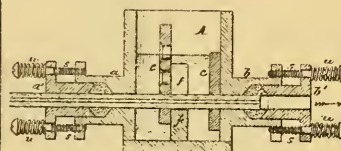
109,741. N. T. JUDD. ROTARY PLOW.



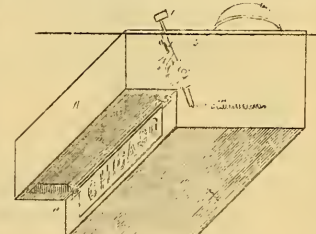
109,742. M. L. KEEN. PAPER STOCK.

109,743. S. W. KIRK. SEPARATING
LEAD FROM THE PRECIOUS METALS.109,744. R. KNAFFEL AND
T. M. SCHLEIER. FAN
ATTACHMENT FOR ROCKING CHAIRS109,745. A. L. LANSING.
RAMMING MACHINE FOR WOOD AND
OTHER PAVEMENTS.109,746. J. W. MAHLON.
DEVICE FOR CUTTING SCREW
THREADS AND FOR DRILLING METALS109,747. J. W. MAHLON
DEVICE FOR CLAMPING OR CUTTING
OFF TUBES AND RODS.109,748. J. F. MILLIGAN.
COTTON BALE TIE

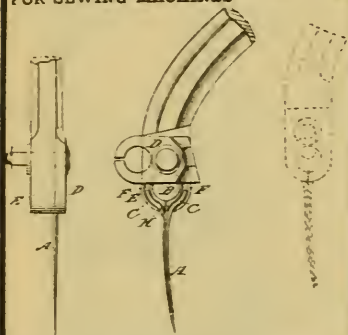
109,749. L. A. MORSE. HEATING STOVE

109,750. T. H. MULLER AND
H. C. BENSON
MACHINE FOR VARNISHING PENCILS.

109,751. L. NELKE. STATION INDICATOR

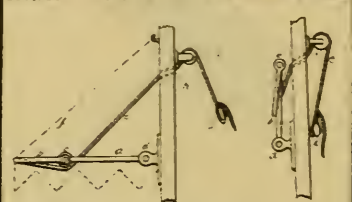
109,752. C. M. NES.
MANUFACTURE OF IRON AND STEEL.

109,753. C. H. PALMER.
NEEDLES AND THEIR CARRYING ARMS
FOR SEWING MACHINES



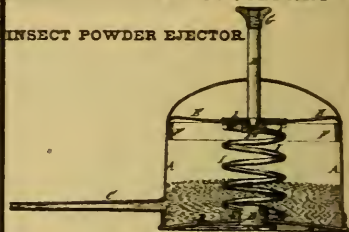
109,757. T. C. RICE
MANUFACTURE OF PAINT.

109,758. W. S. RICE. WINDOW SHADE.

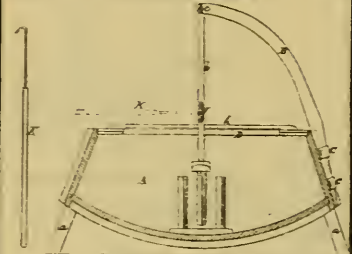


109,762 S. ROSE AND N. GOLDSMITH

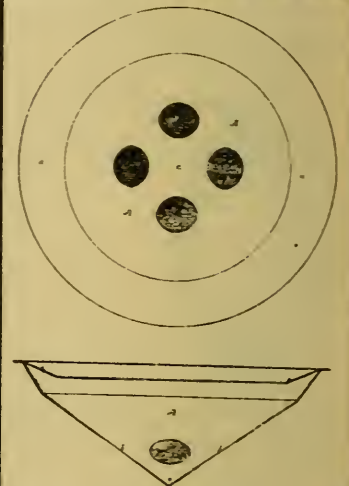
INSECT POWDER EJECTOR



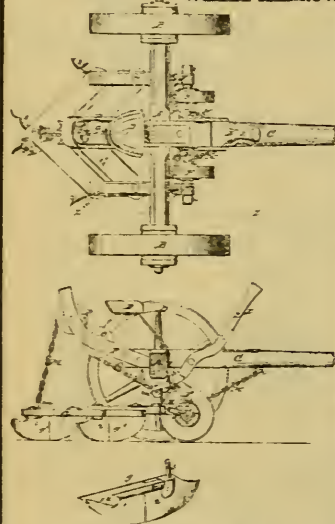
109,759. S. RISLER CHURN.



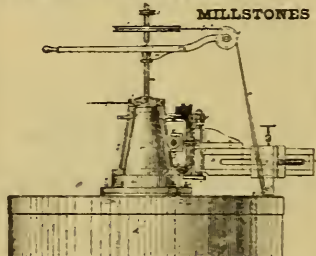
109,763. P. S. RYAN MILK STRAINER



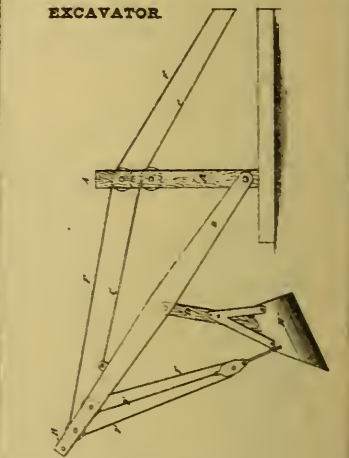
109,754. E. R. POWELL
WHEEL HARROW.



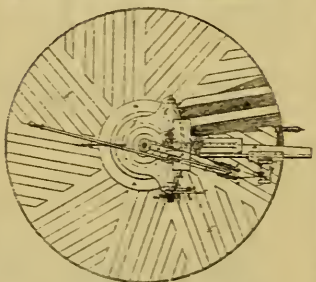
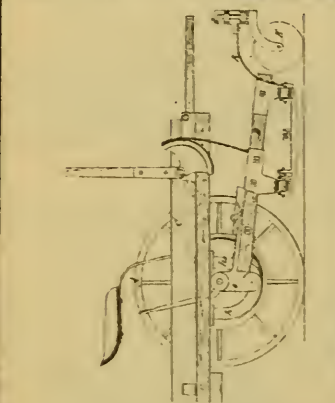
109,760 H. ROBINSON AND J. SMITH
APPARATUS FOR DRESSING
MILLSTONES



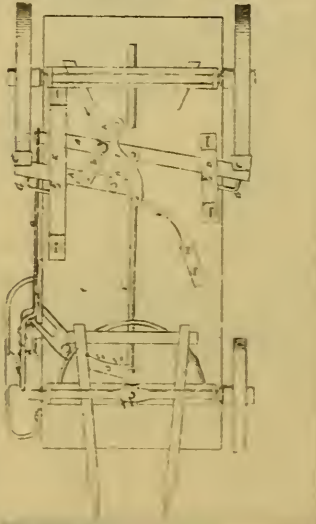
109,764. C. H. SAGE AND S. B. ALGER
EXCAVATOR



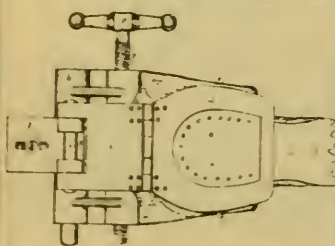
109,755 S. AND I. RAWSON HARVESTER



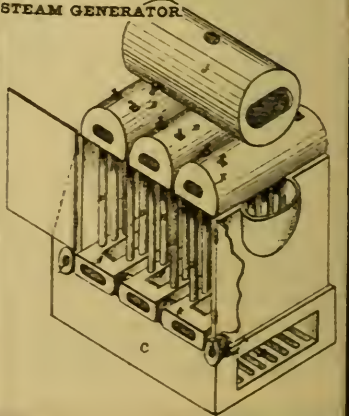
109,761. J. ROBINSON WAGON BRAKE



109,756 T. K. REED AND A. B. KEITH
MACHINE FOR HEELING BOOTS

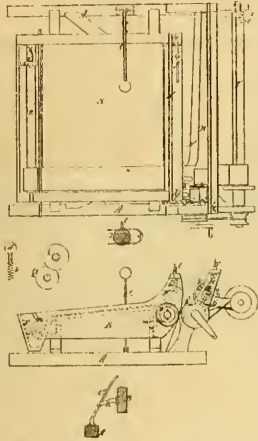


109,765. W. G. SAVAGE.
STEAM GENERATOR

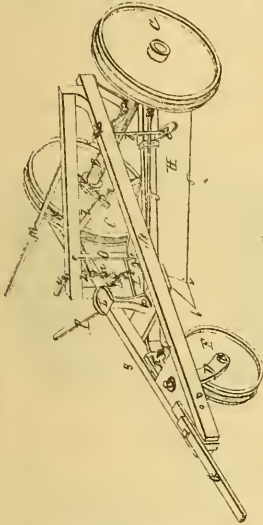


109,766. C. B. SAWYER
MANUFACTURE OF PAPER PULP.

109,767. J. F. SCHUYLER.
PAPER TRIMMING MACHINE.

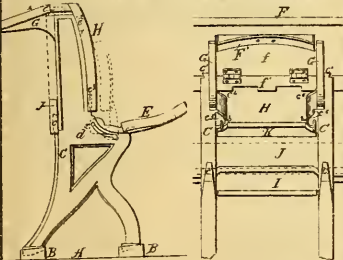


109,768 D. L. SHEPARD ROAD SCRAPER

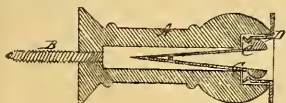


109,769. T. R. SHERRY
FILLING FOR WOOD.

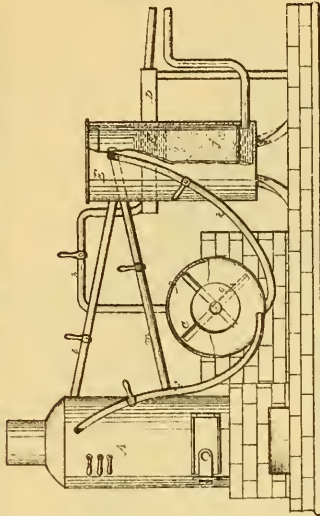
109,770. W. A. SLAYMAKER
SCHOOL DESK AND SEAT.



109,771. O. SLIKER
DOOR HOLDER OR CHECK.

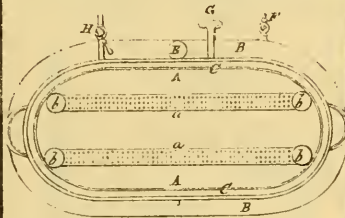


109,772. W. M. SLOANE.
PURIFYING AND REFINING OILS

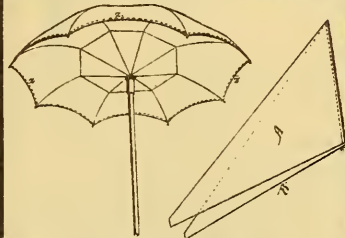


109,773. G. SMITH PERFUMERY.

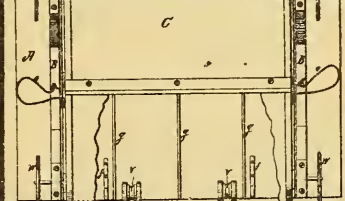
109,774. H. L. SPRAGUE AND
J. N. GUYON WASH BOILER



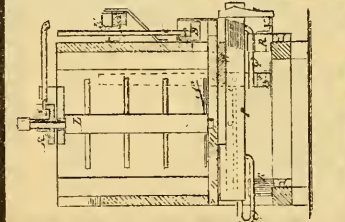
109,775. M. STEPHENS UMBRELLA.



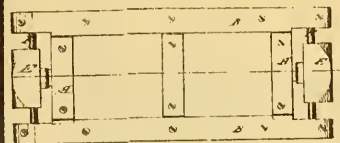
109,776. L. B. STILSON AND
J. G. PAYSON DUMPING APPARATUS.



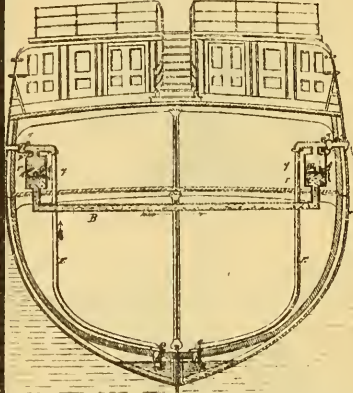
109,777 S. H. TAYLOR BRICK MACHINE.



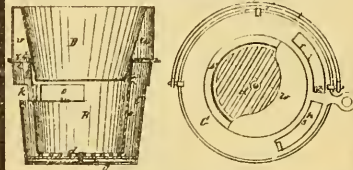
109,778. S. H. TAYLOR BRICK MOLD.



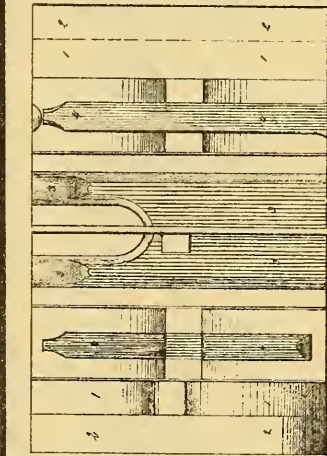
109,779. W. F. J. THIERS.
VENTILATOR, ALARM, AND BILGE
PUMP FOR VESSELS.



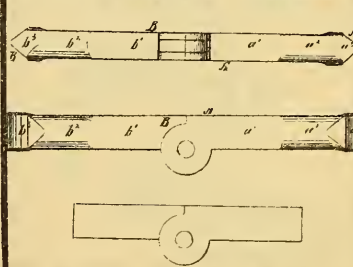
109,780. C. VAN DE MARK
PORTABLE FURNACE.



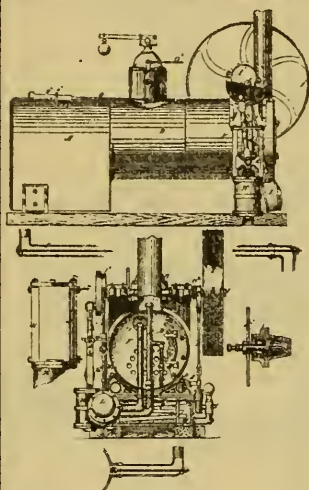
109,781. F. VAN PATTEN DIE FOR
FORGING FIFTH WHEEL HEADS



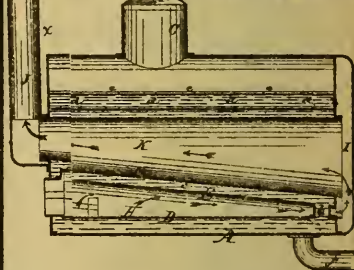
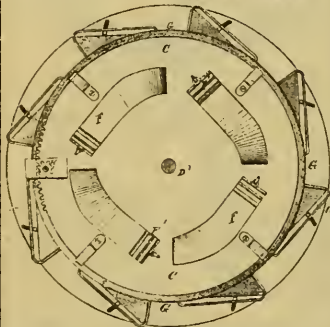
109,782. F. VAN PATTEN AND
E. D. CLAPP STUMP
JOINT FOR CARRIAGE TOP BRACES



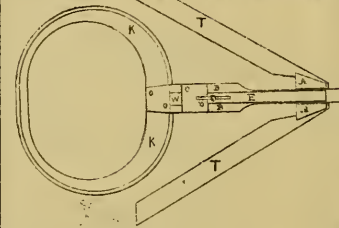
109,783. F. WEDGE. STEAM ENGINE.



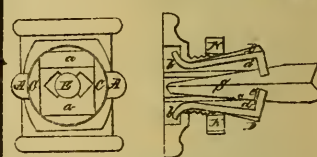
109,787. F. WICKS. ELEVATOR.

4,185. W. E. BARTON
ATTACHING SLEIGH BELLS TO STRAPS4,186. AMERICAN GERNER BOILER
COMPANY. STEAM GENERATOR109,784. G. W. WERTZ
WATER WHEEL.

109,788. D. S. WING. BAG HOLDER.

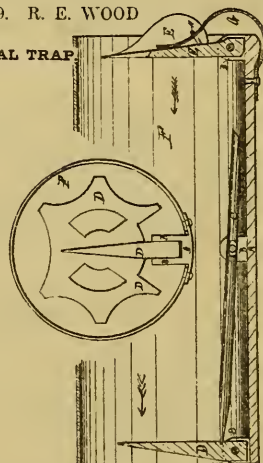


4,187. J. M. HORTON. AUGER HANDLE.

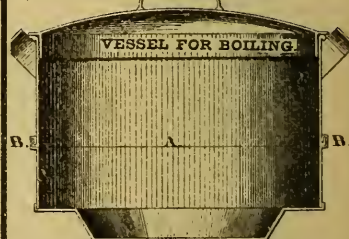
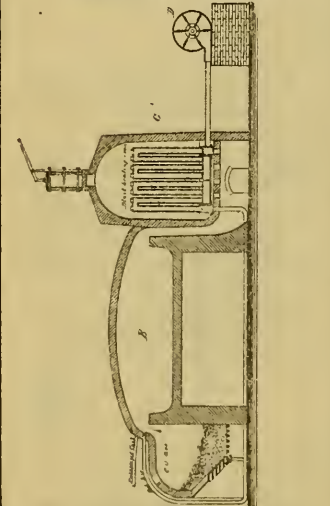
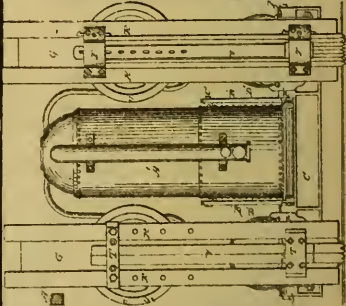


109,789. R. E. WOOD

ANIMAL TRAP.

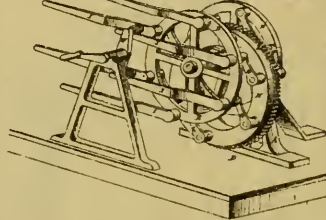


4,188. W. KREGER

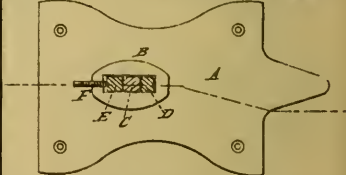
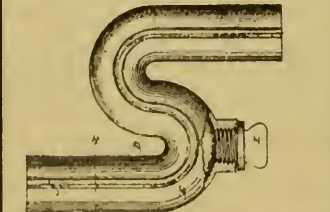
109,785. J. D. WHEPLEY AND
J. J. STORER. HEATING METALLURGIC
AND OTHER FURNACES.4,189. E. G. LAMSON
STONE CHANNELING MACHINE.

109,790. J. WOOLF.

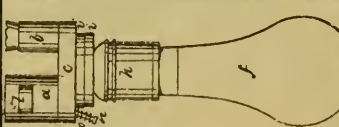
MECHANICAL MOVEMENT.

109,791. E. A. WORTHEN
DEVICE FOR MANUFACTURING
METALLIC CARTRIDGE SHELLS.

4,190. C. H. LOOMIS. SCHOOL DESK

109,786. J. E. WHITE.
CASTING STENCH TRAP

109,792 A. ZANTZINGER HAND STAMP



4,191. H. SCOTT. SKATE FASTENING.

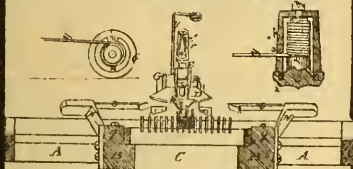


ILLUSTRATIONS OF PATENTS

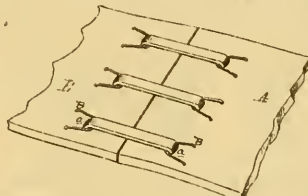
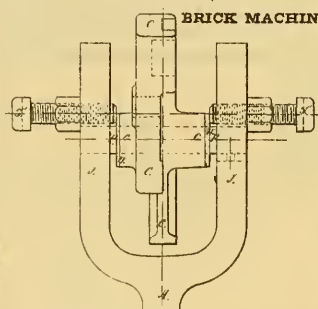
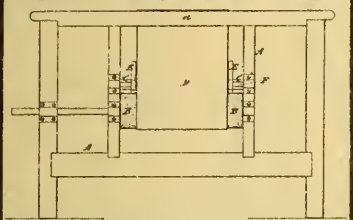
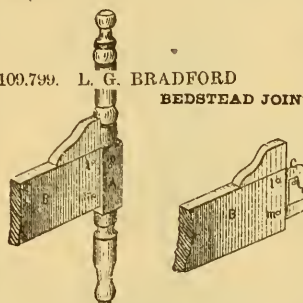
ISSUED FROM

THE UNITED STATES PATENT OFFICE

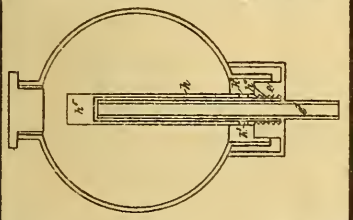
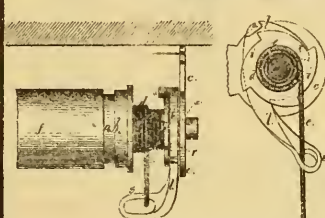
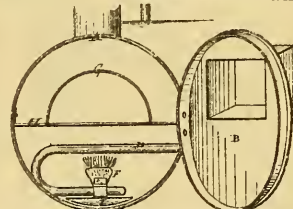
DECEMBER 6. 1870.

109,793. A. W. ALLEN
KNITTING MACHINE AND NEEDLE.

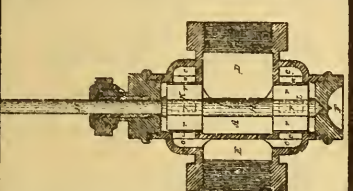
109,798 S. S. BOLTON BELT FASTENER.

109,803. C. CHAMBERS, JR
BRICK MACHINE.109,794. W. A. ARNOLD CLOTH
WINDING MECHANISM FOR LOOMS.109,799. L. G. BRADFORD
BEDSTEAD JOINT109,804. W. CHAMBERS.
COTTON BALE TIE.

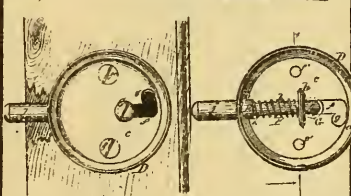
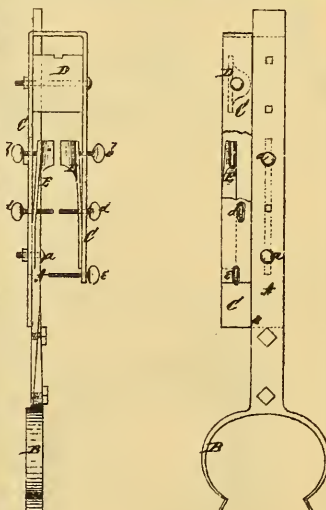
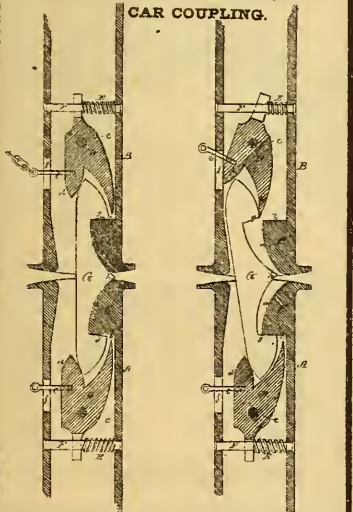
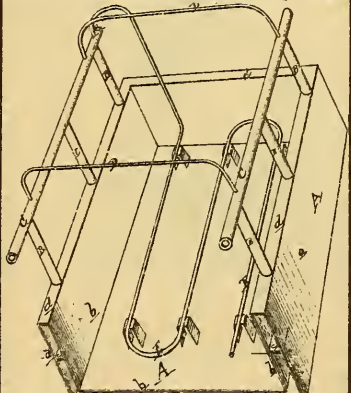
109,795. C. D. AUSTIN LUBRICATOR.

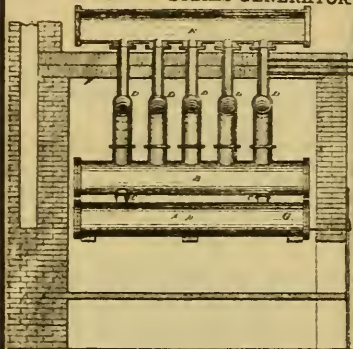
109,800. J. G. BROTHWELL.
CURTAIN FIXTURE.109,805. M. CONNER.
TINSMITHS' FURNACE

109,796. R. BERRYMAN VALVE COCK

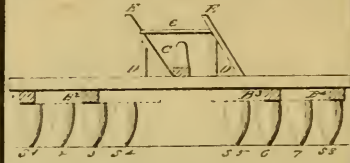
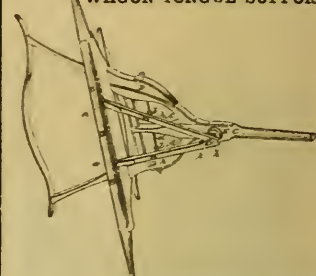
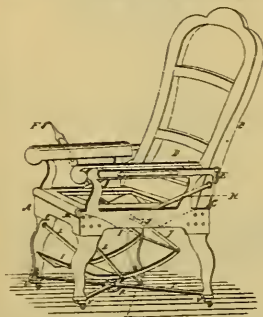


109,801. E. L. BROWN SASH LOCK

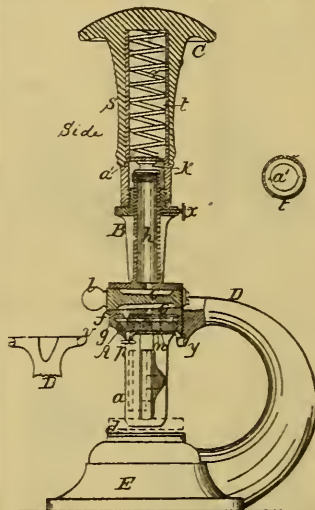
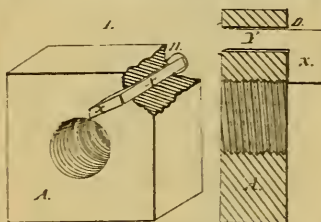
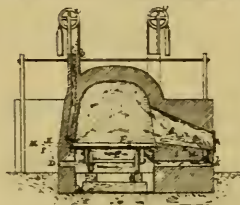
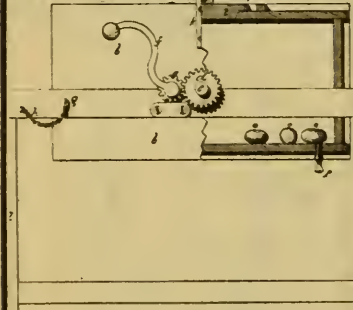
109,806. E. H. CORBIN.
CIRCULAR SAW JOINTER.109,797. H. BLANCHARD JR.
CAR COUPLING.109,802. J. BUCHANAN APPARATUS
FOR EVAPORATING BRINE
AND OTHER LIQUIDS.

109,807. L. R. CORNELL.
STEAM GENERATOR

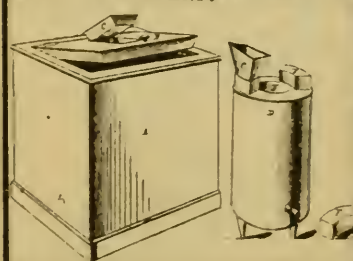
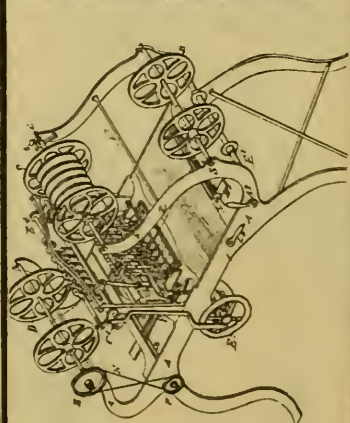
109,812. A. ESHLEMAN CULTIVATOR.

109,813. B. F. EVANS.
BARREL SAFETY VALVE OR VENT.109,817. A. F. GUE
WAGON TONGUE SUPPORT.109,808. J. P. CURRY
RAILWAY RECLINING CHAIR

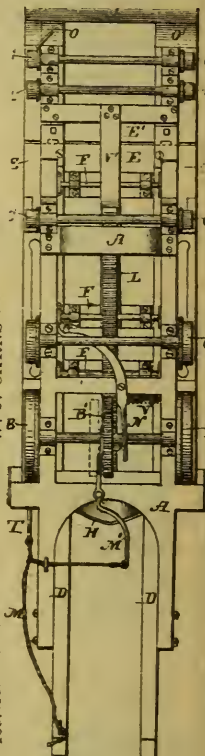
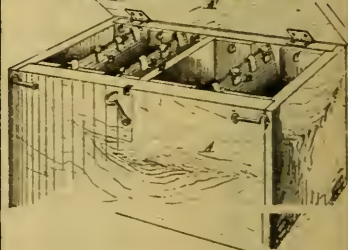
109,814. D. W. FISH. HAND STAMP

109,809. M. A. CUSHING AND
O. R. GLOVER NUT LOCK.109,815. W. GILBERT
PERPETUAL BRICK BURNING KILN109,810. H. DICKINSON
WASHING MACHINE

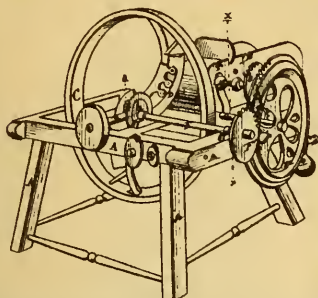
109,811. H. F. EBERTS REFRIGERATOR

109,816. E. D. GIRD SEWING
MACHINE FOR MAKING PUFFING109,818. T. HAIR AND J. WOOD.
SHUTTER FASTENER.

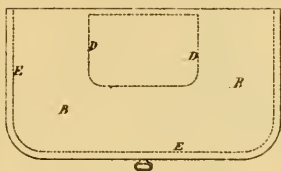
109,819. C. F. HORNBECK AND W. J. CARNS SNOW PLOW.

109,820. D. Y. HOWELL. DEVICE
FOR FREEZING FISH, MEATS, &c.109,821. G. M. HUSTON BOX FOR
PACKING FRUIT, PROVISIONS, &c.

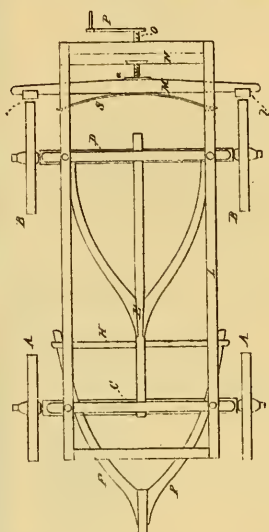
109,822. W. HUTCHINS FEED CUTTER



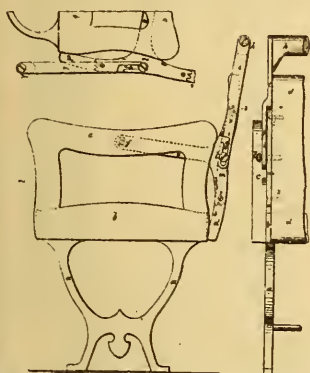
109,827 J. LEHMAN. POCKET BOOK



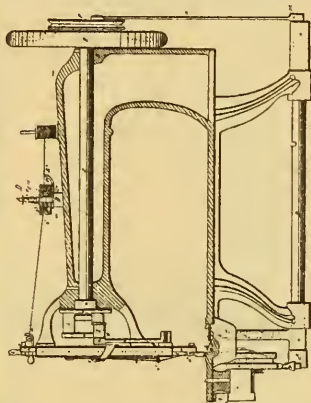
109,832. J. MICKLEY AND J. E. HARTMAN. WAGON BRAKE.



109,823. E. M. JUDD. HEAD REST FOR CAR SEATS.

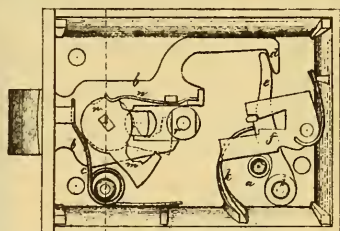


109,828. T. A. MACAULAY. SEWING MACHINE.

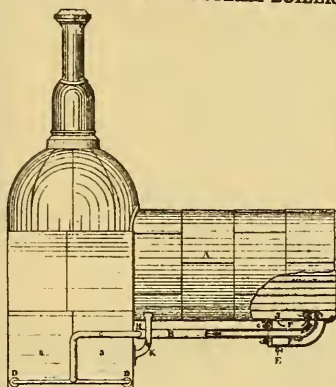


109,833 J. W. MORGENSEN. VARNISH FOR COATING PHOTOGRAPHIC NEGATIVES.

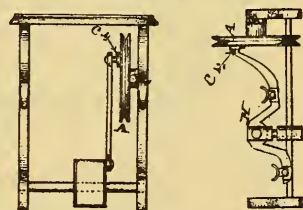
109,834. W. T. MUNGER. DOOR LATCH.



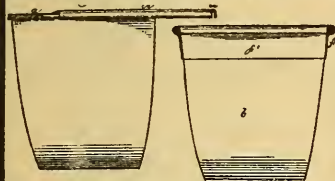
109,829. W. B. MACK. STEAM BOILER.



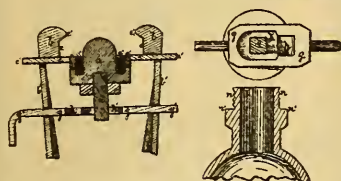
109,835. A. NIELSON. TREADLE FOR SEWING MACHINES.



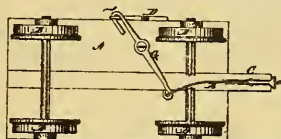
109,824 W. M. KIRCHNER. JELLY GLASS.



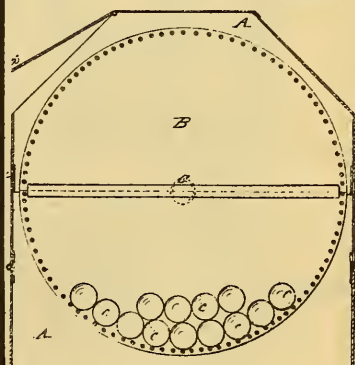
109,825. W. M. KIRCHNER. TOOL FOR FORMING SCREW THREADS ON GLASS JARS.



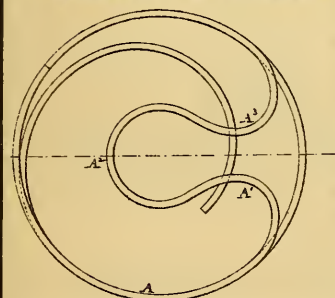
109,830. S. MAHURIN. CAR COUPLING.



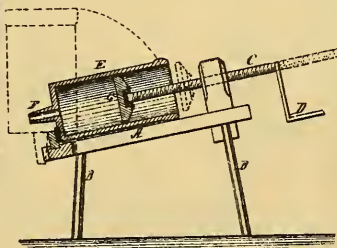
109,836. L. B. OSGOOD. WASHING MACHINE.



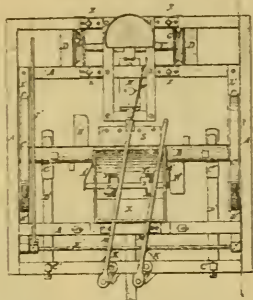
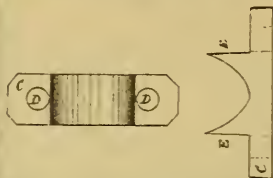
109,826. C. KLINE. HAIR SPRING OF WATCHES, &c.



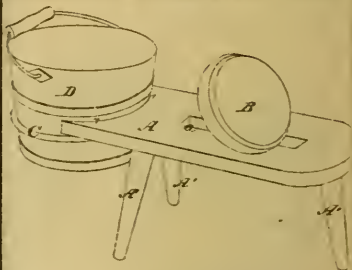
109,831. J. MICKLEY AND J. E. HARTMAN. SAUSAGE STUFFER.



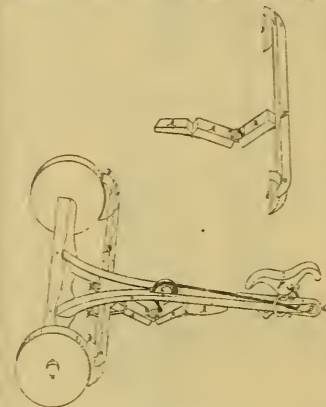
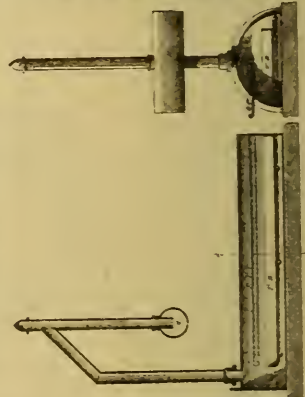
109,837 G. PADDINGTON CORN PLANTER

109,842. S. ROWELL.
CARRIAGE AXLE AND AXLE YOKE

109,847. G. SMITH MILKING STOOL

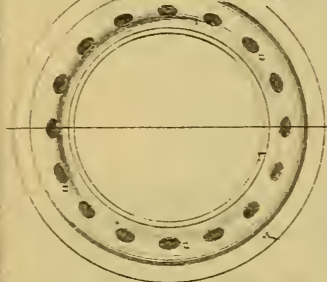
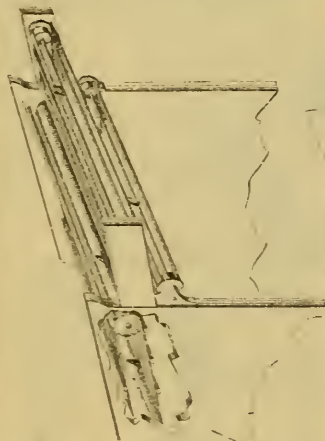
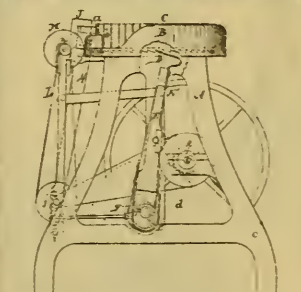


109,843 G. W. SANBORN WAGON BRAKE

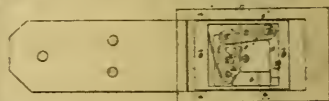
109,848. J. H. SMITH
APPARATUS FOR THE MANUFACTURE
OF GAS FROM HYDROCARBONS.

109,838 J. D. PIERCE AND J. B. SMITH

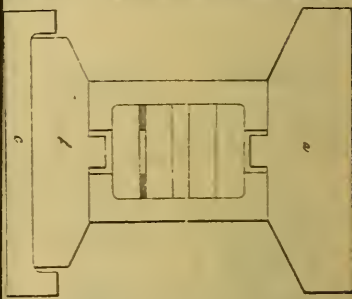
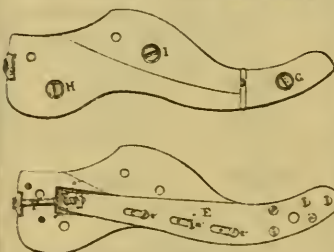
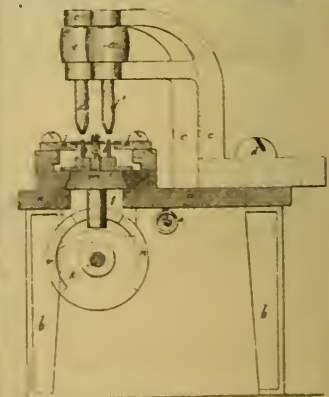
STOVE PIPE THIMBLE.

109,830 H. RAYMOND
GRAIN SEPARATOR.109,844. F. SANDHAM.
MACHINE FOR STAMPING, PRESSING,
AND POINTING HORSESHOE NAILS.

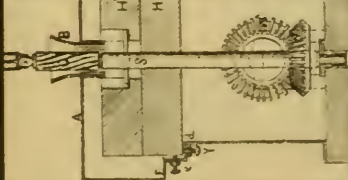
109,849. G. E. STEDMAN BUCKLE.



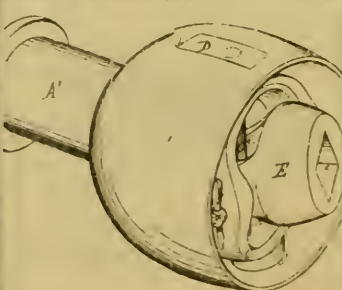
109,850. J. STOKES. FILE FOR BEAMS.

109,845. S. W. SHOREY.
LAST FOR BOOTS AND SHOES.109,840. G. RAYMOND
WASHING MACHINE.109,851. L. P. SUMMERS.
MACHINE FOR COUNTERSINKING THE
HOLES IN BUTT HINGES.

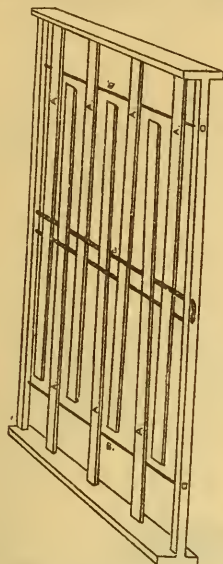
109,841. S. G. ROLLINS. BUR MILL.



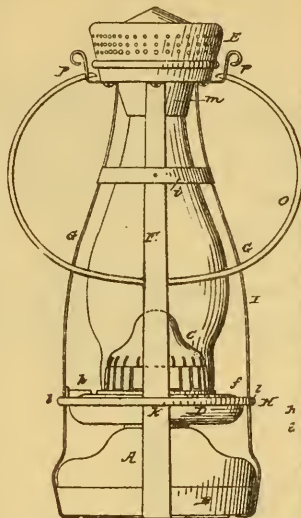
109,846. W. SNEED SHAFT COUPLING



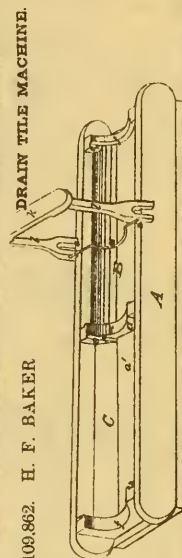
109,852. C. VALKMAR BED BOTTOM.



109,856. H. J. WHITE. LANTERN.

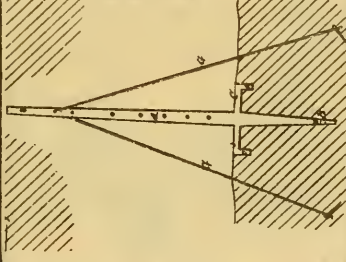
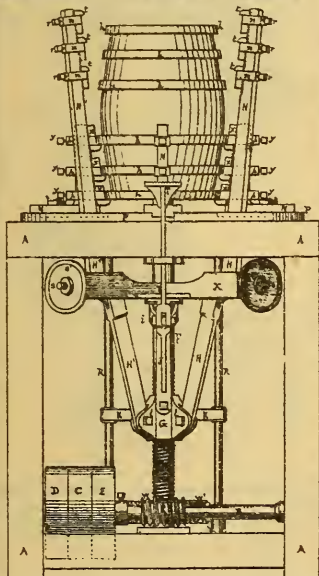
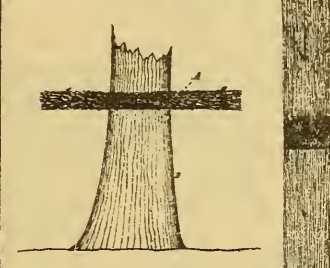
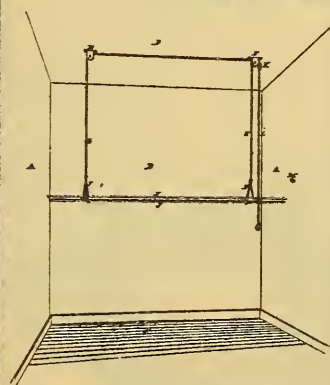
109,857. D. WHITELEY.
PROCESS OF SEPARATING THE HAIR
FROM THE WARP IN HAIR CLOTH

109,861. R. C. ANDRUS. CORPSE PRESERVER.

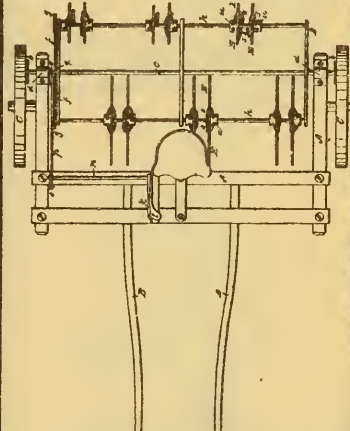
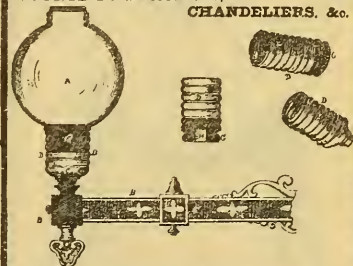
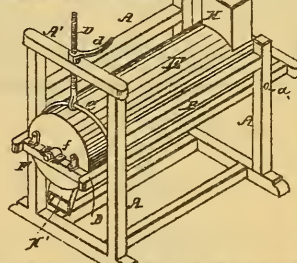


109,862. H. F. BAKER. DRAIN TILE MACHINE.

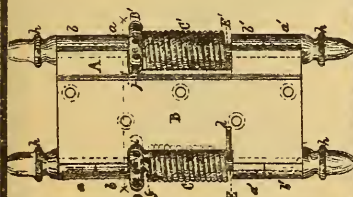
109,853. J. W. WATTLESSUSPENDERS

109,858B. WILSON AND F. P. GRIMES
WIRE FENCE.109,854. P. WELCH
MACHINE FOR TRUSSING BARRELS.109,859. B. L. ALLEY AND
T. W. SHAPLEIGH. TREE PROTECTOR109,860. C. R. ANDERSON
CLOTHES DRIER.

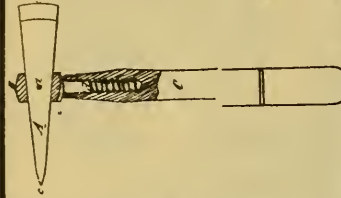
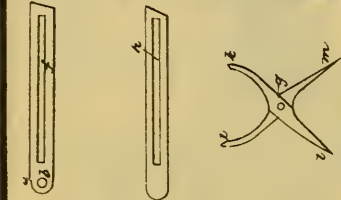
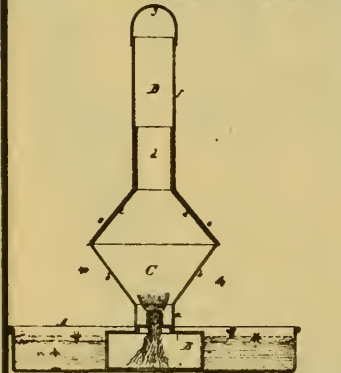
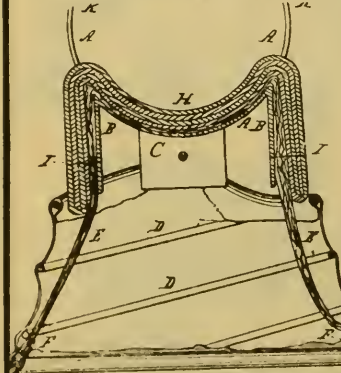
109,863. O. A. BENTON HAY TEDDER.

109,864 G. BOHNER ATTACHING LAMP
FOUNTS TO BRACKETS,
CHANDELIERS, &c.109,865. J. H. BROOKMIRE.
APPARATUS FOR CLEANING AND
POLISHING COFFEE.

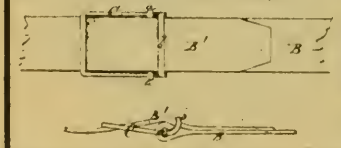
109,855. W. WELLS SPRING HINGE.



109,866 W. BROWN FRICTION ROLLER.

109,867. J. N. BUNNELL.
ICE AX AND PICK.109,868. G. G. BURGESS. COMBINED
RULE, BEVEL SQUARE, AND DIVIDERS.109,869. T. BYRNE AND D. STRUNK.
INSECT DESTROYER.109,870. J. A. COWLES.
JOURNAL LUBRICATOR.

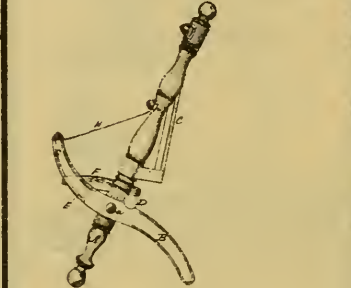
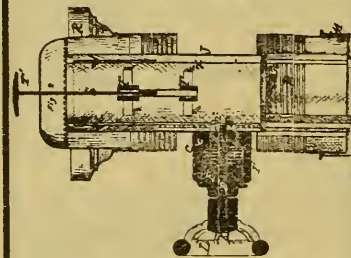
109,871. L. D. COWLES BUCKLE.

109,872. C. M. CRESSON
SEASONING AND PRESERVING WOOD109,873. C. M. CRESSON
SEASONING AND PRESERVING WOOD109,874 C. M. CRESSON TREATING AND
RECOVERING THE LIQUIDS USED IN
SEASONING AND PRESERVING WOOD.

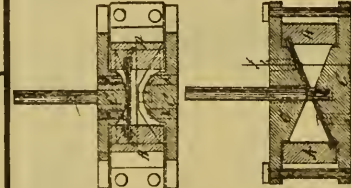
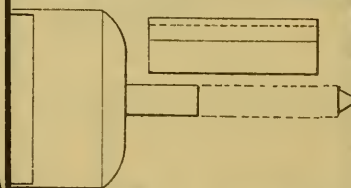
109,875. W. H. DAGGETT BREAD PAN.



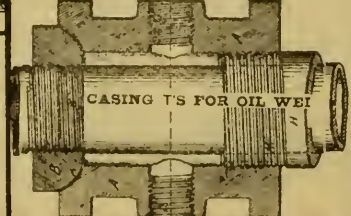
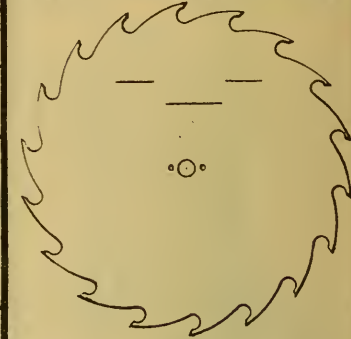
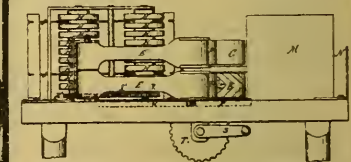
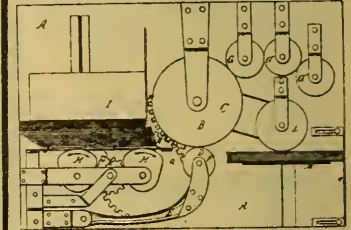
109,876. I. N. DANN. FOLDING CHAIR.

109,877. S. M. DAVIES
LOCOMOTIVE HEAD LIGHT.

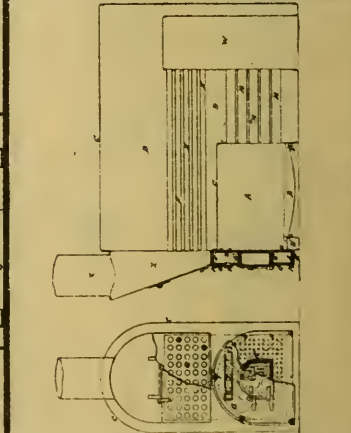
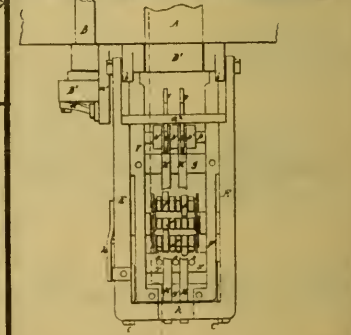
109,878 W. A. DAVIS ROTARY ENGINE

109,879. M. DE MONTUFAR
INSULATOR FOR TELEGRAPH WIRES.

109,880. J. C. DICKEY

109,881. T. S. DISTON PROCESS FOR
MAKING CONCAVE CIRCULAR SAWS109,882. C. E. DONNELLAN POST
MARKING STAMP CANCELING MACHINE

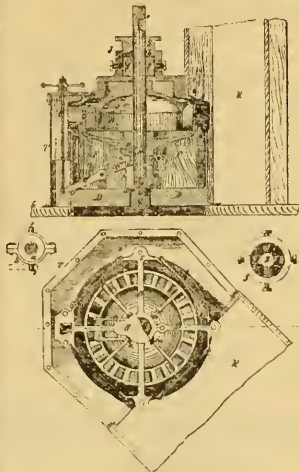
109,883. G. S. DUBOIS STEAM BOILER

109,884. J. C. DUCKWORTH HARNESS
OPERATING MECHANISM FOR LOOMS

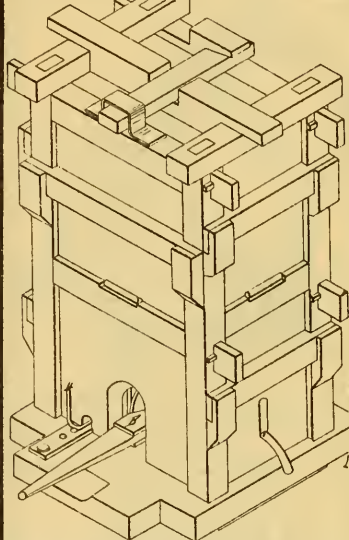
109,885 W. H. ELMER WATER WHEEL



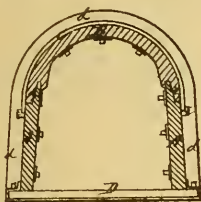
109,891. M. GREGG WATER WHEEL



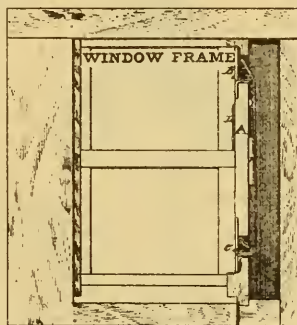
109,897. W. HAYNIE. COTTON PRESS



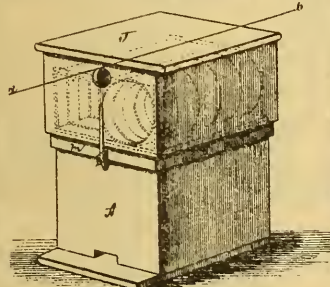
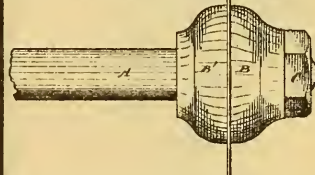
109,886 M. G. FREEMAN IRON CULVERT



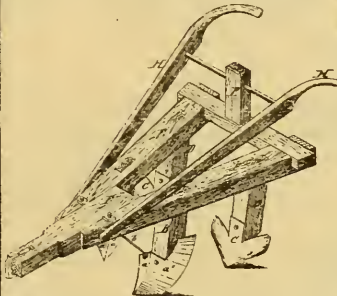
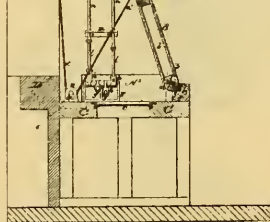
109,892 W. H. GRIFFIN

109,887. C. H. FRINGS
SACCHARIFYING MASH FOR GRAIN

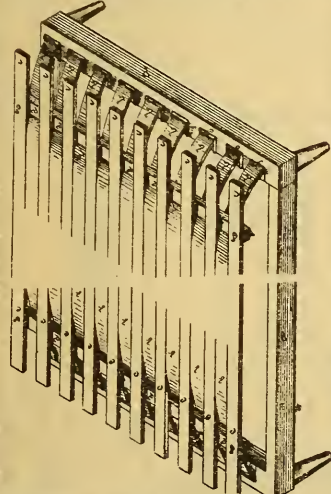
109,888. J. W. GLADDING BEE HIVE

109,898. J. B. HEALD
COLLAR FOR CIRCULAR SAWS.

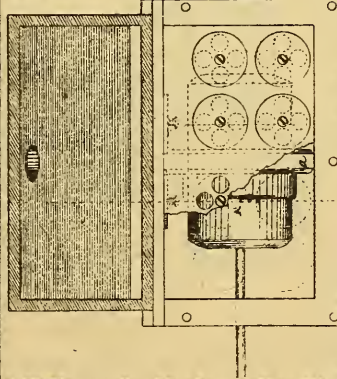
109,893. T. GUICE. COTTON FLOW.

109,899. G. HEATH
CANAL LOCK

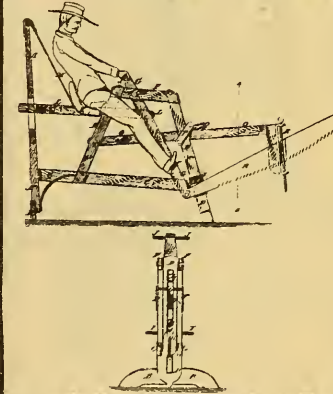
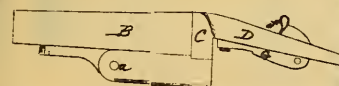
109,889 C. GLENN SPRING BED BOTTOM

109,894. W. HAINSWORTH MOLD
AND CONE FOR METALLIC CASTINGS109,895. O. F. HARRIS
MEDICAL COMPOUND.

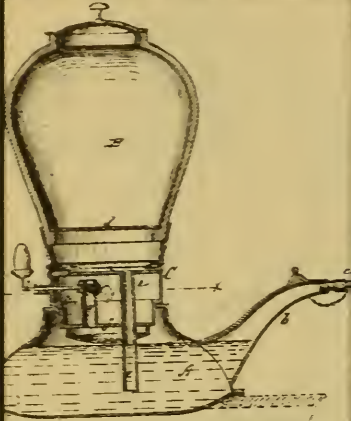
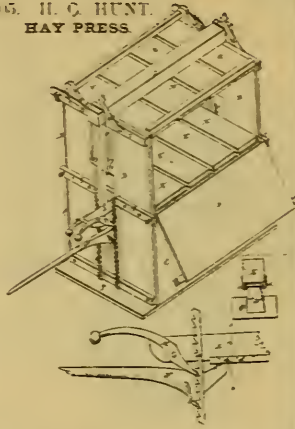
109,896. W. HARTLEY. PUMP.



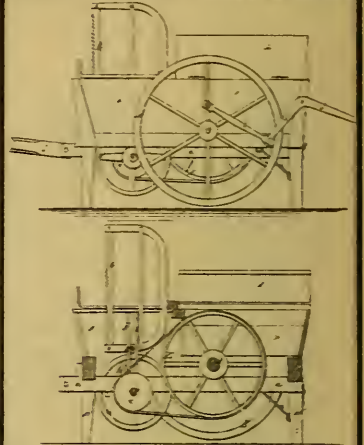
109,900 D. HEILER SAWING MACHINE.

109,890. C. GREEN.
BREECH LOADING FIRE ARM

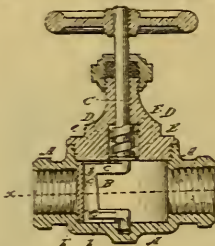
109,801 L. HILDENBRAND COFFEE POT

109,805. H. C. HUNT
HAY PRESS

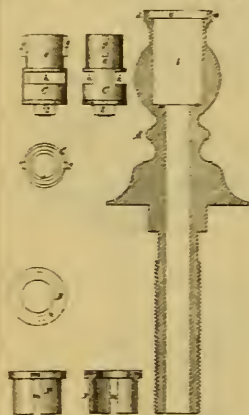
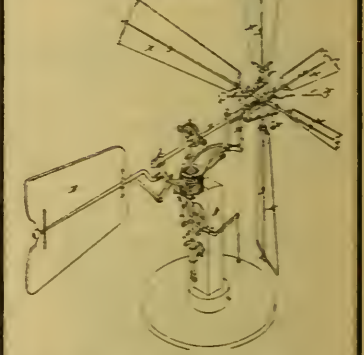
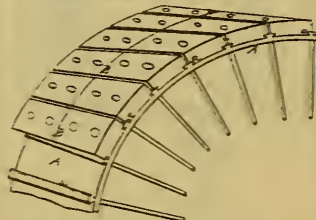
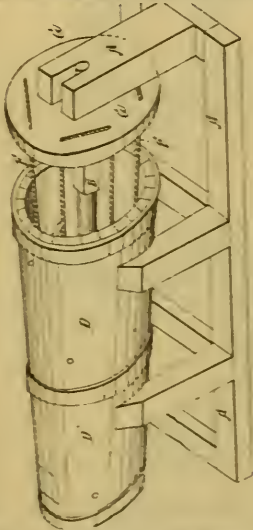
109,809 P. JOHNSON SAWING MACHINE



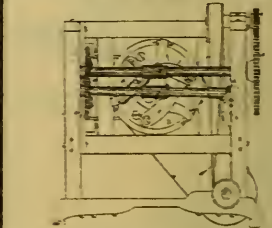
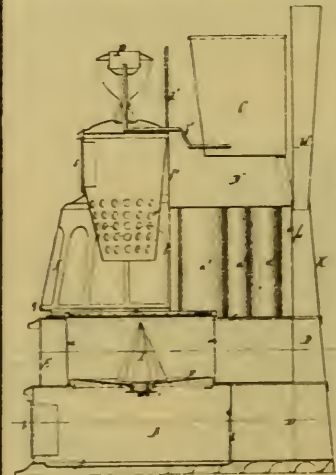
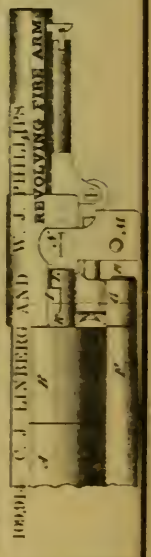
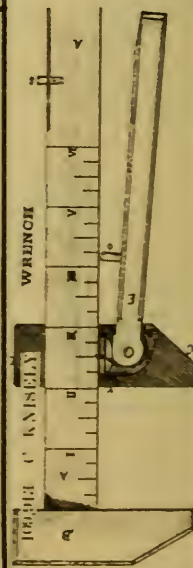
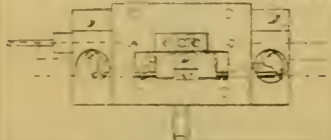
109,806. C. E. HUTSON STOP VALVE.



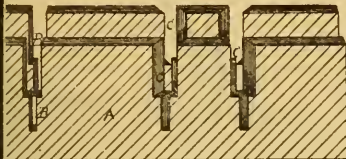
109,802 J. HILLS. FAUCET.

109,811. J. H. S. AND G. W. KIMBLE
WIND WHEEL109,807. O. HYDE.
TIRE FOR TRACTION ENGINE.109,803. G. P. HOLLOWAY AND
W. J. HUEY MACHINE FOR BEATING
AND CLEANING HAIR.109,808. F. J. WIGAN
LUBRICATOR FOR STEAM ENGINES

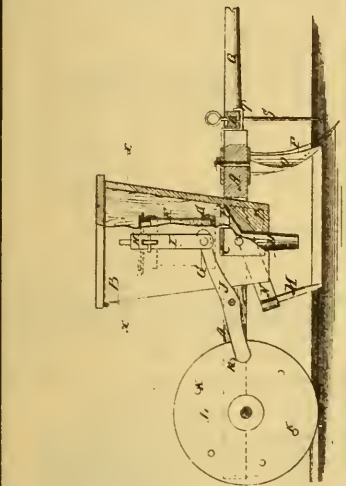
109,812. S. U. KING LATHE.

109,809. J. JAEGER
BASE BURNING FIRE PLACE HEATER109,804. W. D. HOOKER
DIRECT ACTING STEAM ENGINE

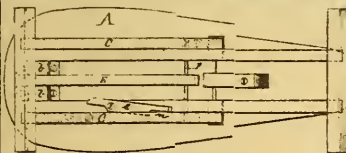
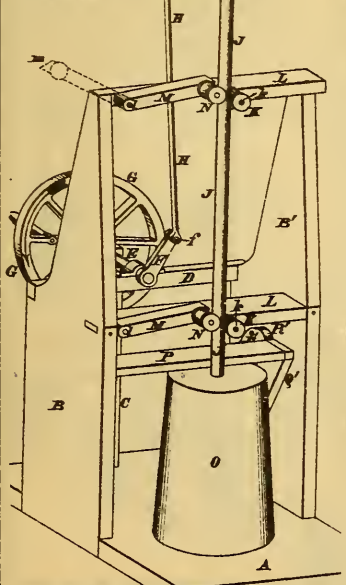
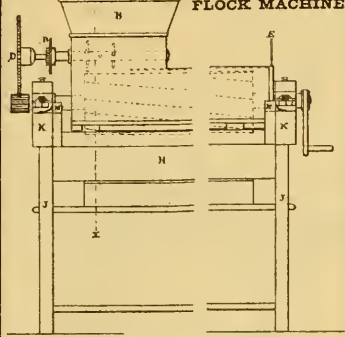
109,915. C. F. LINSOTT MITER BOX



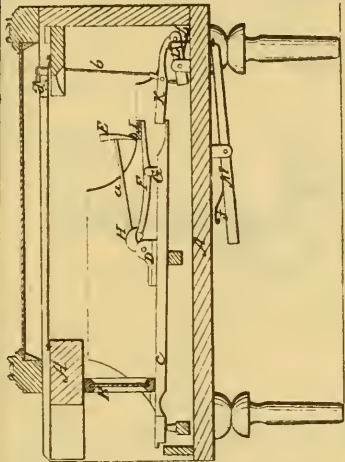
109,916. S. D. LUCAS. COMBINED HAND SEED DRILL AND CULTIVATOR.

109,917 E. LUDDE
PUTTING UP POMATUM

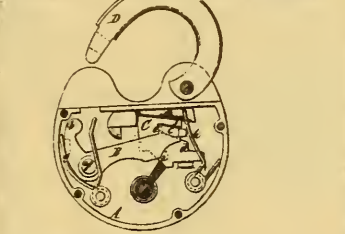
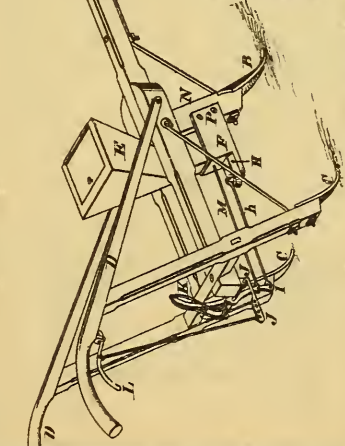
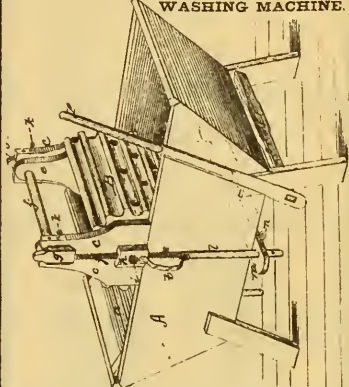
109,918 J. H. MALLORY IRONING TABLE

109,919. C. MATHENY
CHURN.109,920. W. McALLISTER
FLOCK MACHINE.

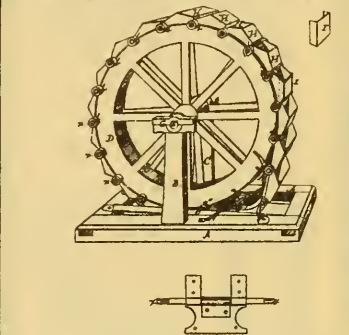
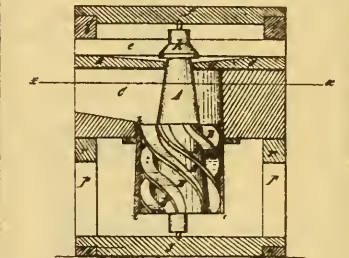
109,921 F. B. MCGREGOR PIANO ACTION.



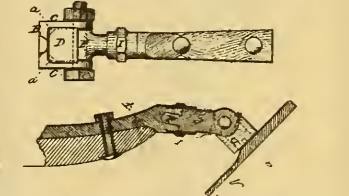
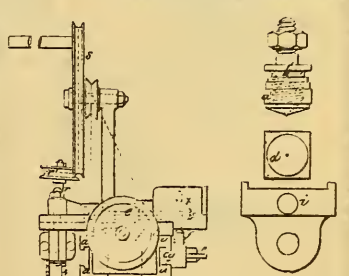
109,922. W. McINTYRE. PADLOCK.

109,923. N. MENDENHALL.
CORN PLANTER.109,924. S. S. MIDDLEKAUFF
WASHING MACHINE.

109,925. M. MILLARD WATER WHEEL.

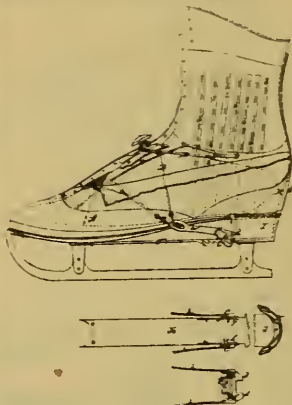
109,926. R. MONROE
TURBINE WATER WHEEL.

109,927. F. B. MORSE THILL COUPLING

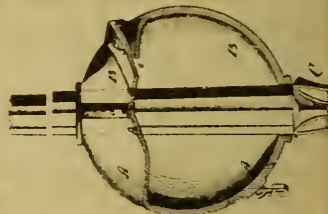
109,928. J. L. NORTON
APPARATUS FOR DRESSING AND
FURROWING MILLSTONES

109,929. J. K. ODELL AND
W. S. LITTLECAST IRON FLOW.

109,935. A. C. PLATT. SKATE.



109,939. A. POTTS LETTER BOX.



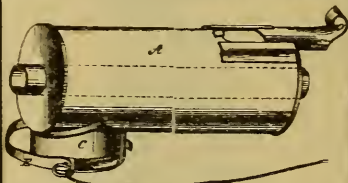
109,930. T. ORCHARD COUPLING FOR EARTH BORING AUGERS.



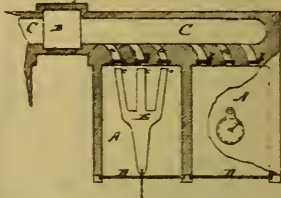
109,931. W. I. PAGE. METALLIC CARTRIDGE.



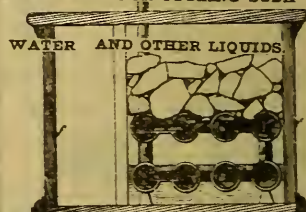
109,936. H. G. PORTER CORN PLANTER.



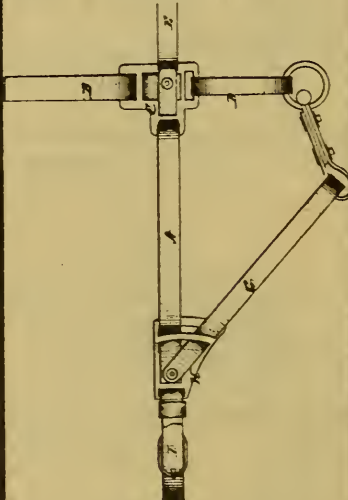
109,940. T. PRICE. COKE FURNACE.



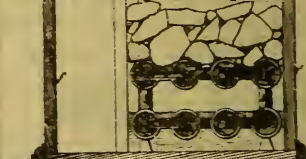
109,941. F. PUETZ BUCKLE.

109,942. A. D. PUFFER
APPARATUS FOR COOLING SODA

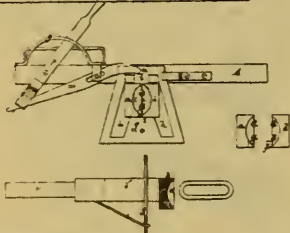
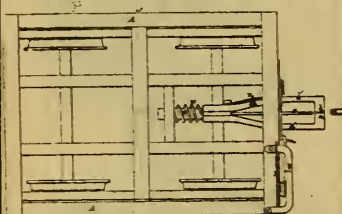
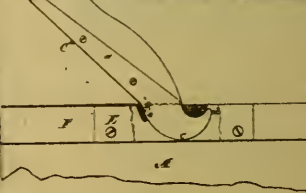
109,937. R. PORTER HALTER.



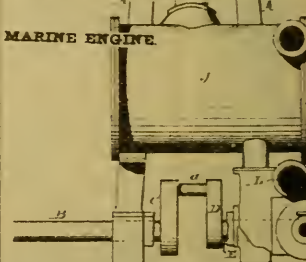
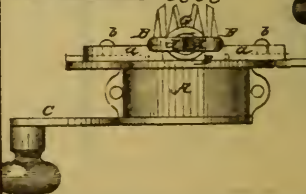
WATER AND OTHER LIQUIDS.



109,932. J. R. PALMER CAR COUPLING.

109,943. J. C. RANKIN
WAGON SEAT FASTENING

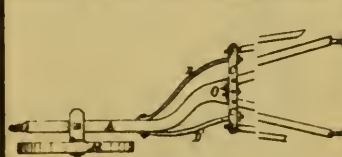
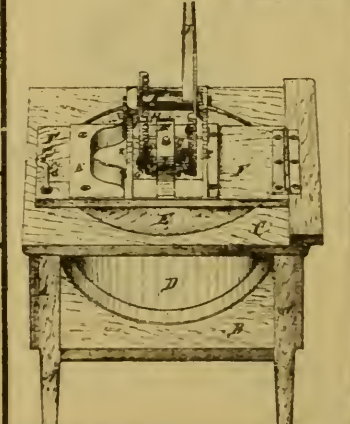
109,944. W. B. REANEY

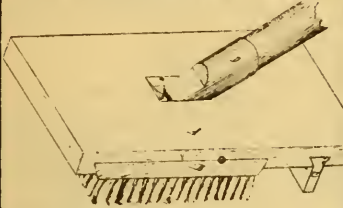
109,945. G. W. REISINGER
CORN SHELLER.

109,933. A. PATTENSHOE LACING HOOK.

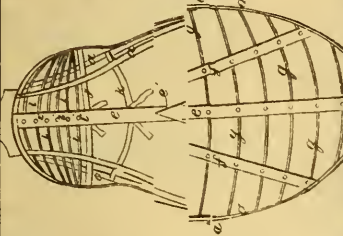
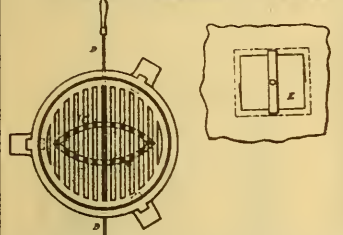


109,934. E. PHILLIPS CORN FLOW.

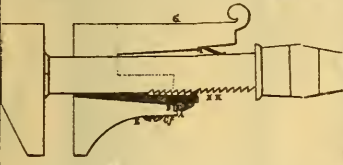
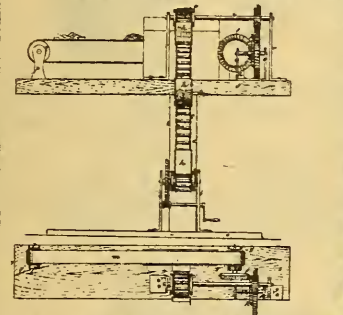
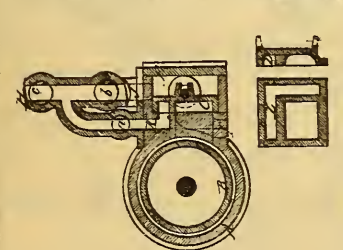
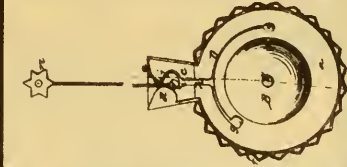
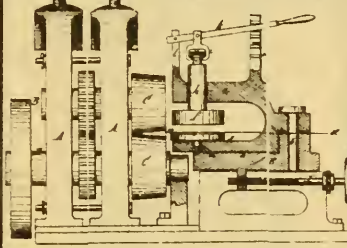
109,938. S. POST AND H. D. MARTIN
WASHING MACHINE.

109,946. R. ROCKWELL AND
Z. B. CUSTER SCRUBBING BRUSH

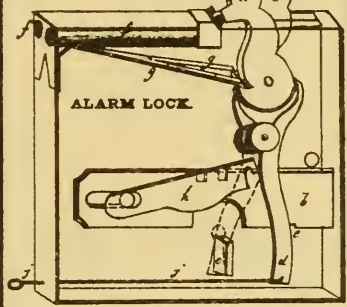
109,947. H. SCHULTZ SKIRT.

109,948. L. SCHULZE.
APPARATUS FOR PITCHING AND
COATING BARRELS, CASKS, &c.

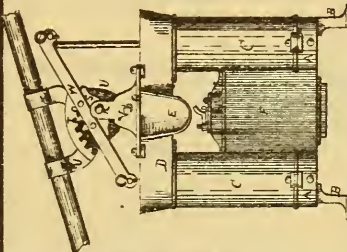
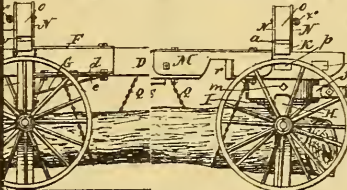
109,949. E. S. SCRIPTURE WRENCH.

109,950. T. SHANKS
ELEVATOR AND DISTRIBUTER109,951. S. F. SHELBOURNE AND
C. E. EMERY DIRECT ACTING ENGINE109,952. C. W. SIMONDS
POCKET ALARM109,953. W. H. SINGER
BEVELING THE EDGES OF CIRCULAR
PLATES OF METAL.

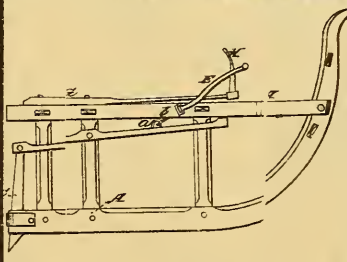
109,954. T. P. SINK



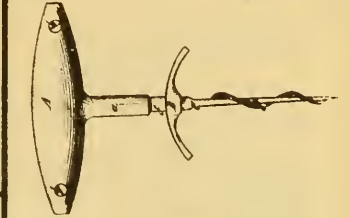
109,955. J. B. SIVERTSON PUMP.

109,956. J. SKEEN
WAGON FOR LOADING TIMBER

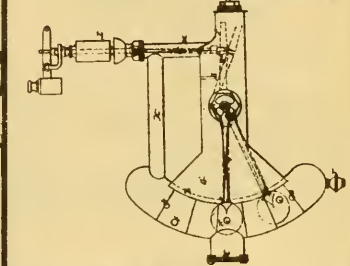
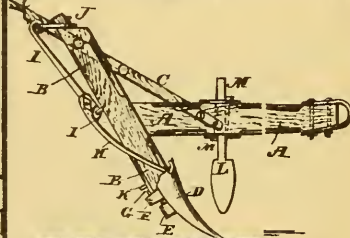
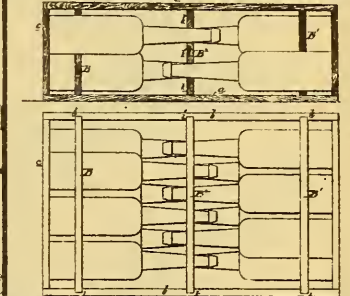
109,957. J. A. SMITH SLEIGH BRAKE.



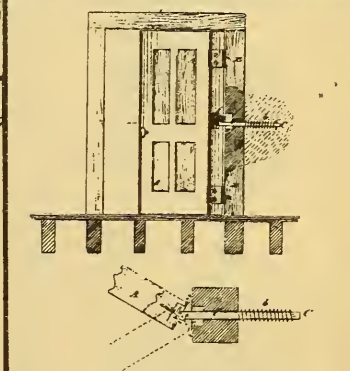
109,958. H. W. SMITH CORK SCREW



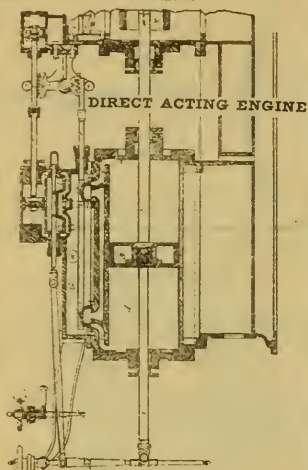
109,959. L. F. SMITH

COMBINED HIGH AND LOW WATER
INDICATOR109,960. A. SNYDER
SHIFTING SHOVEL FLOW.109,961. J. J. SOLOMON
BOX FOR PACKING BOTTLES

109,962. W. H. STAFFORD DOOR SPRING

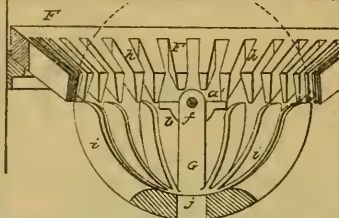
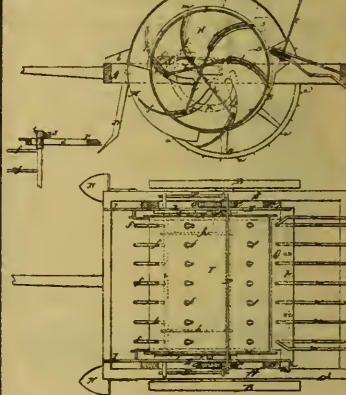


109,963. W. J. STEVENS



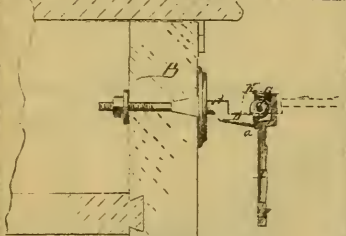
DIRECT ACTING ENGINE

109,968. J. M. THATCHER STOVE GRATE

109,973. J. VAN ANTWERP
CLEVIS FOR SLED.109,974. N. VANDENBERG
POTATO DIGGER

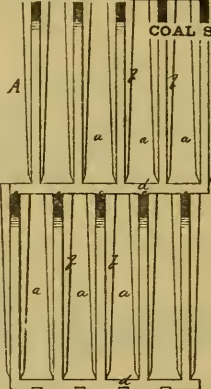
109,964. C. A. STOCK

DRAWER HANDLE.



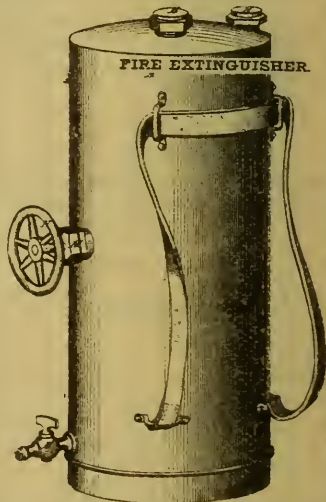
109,969. E. THOMAS

COAL SCREEN.

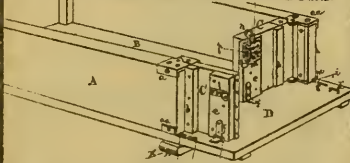


109,975. W. P. VAN DEURSEN

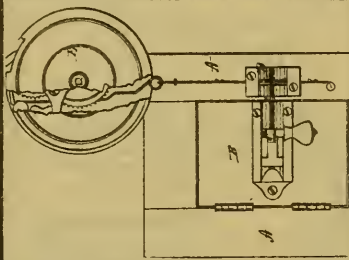
FIRE EXTINGUISHER.

109,965. R. F. STOCKING AND
C. P. GREENE

END GATE FOR WAGONS.

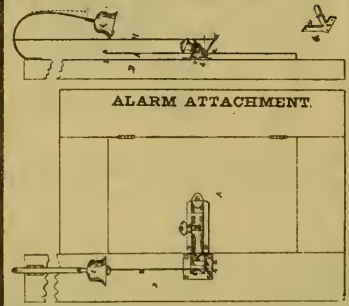


109,970. J. H. THORP BURGLAR ALARM

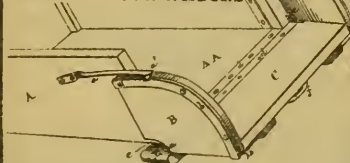


109,971. J. H. THORP.

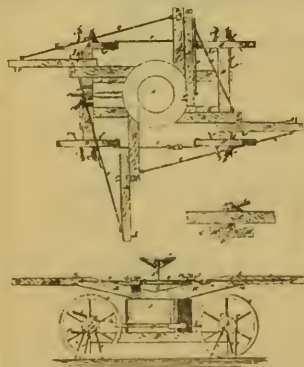
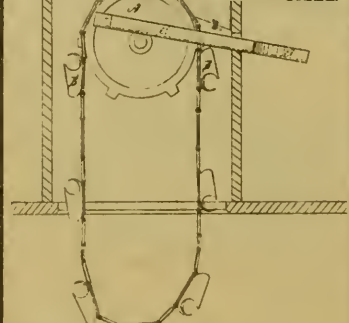
ALARM ATTACHMENT.

109,966. R. F. STOCKING AND
C. P. GREENE

END GATE FOR WAGONS.

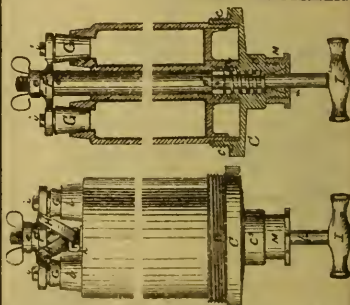
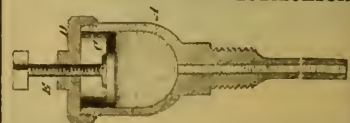


109,967. L. P. TEED HORSE POWER

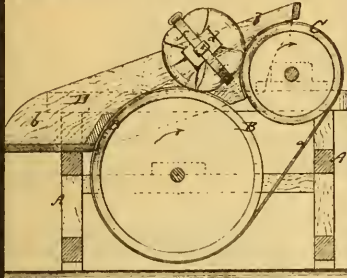
109,972. J. TURNER AND
S. WOODWARD
WATER WHEEL.

109,976. J. B. VAN DYKE

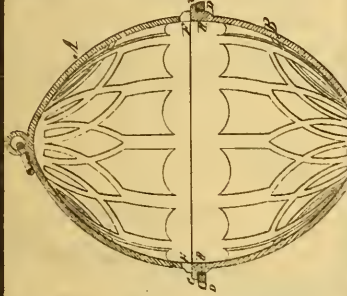
FIRE EXTINGUISHER.

109,977
S. S. VOLLUM AND W. H. GREEN
CARRIAGE WHEEL LUBRICATOR.

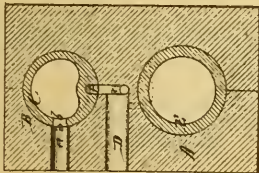
109,978. C. C. WARREN AND
J. B. BALDY
MACHINE FOR POLISHING COFFEE



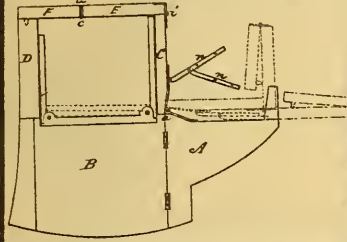
109,979. R. L. WEBB TWINE HOLDER



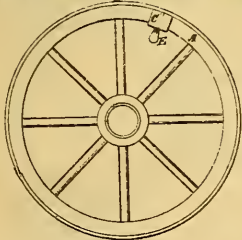
109,980 G. M. WEINMAN STEAM PUMP



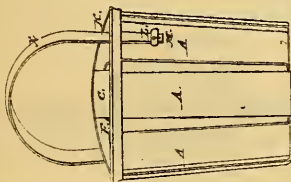
109,981. E. WELLS.
LANDAULET CARRIAGE.



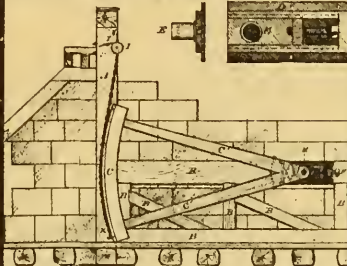
109,982. A. O. WHEELER.
MODE OF SETTING TIRES ON WHEELS



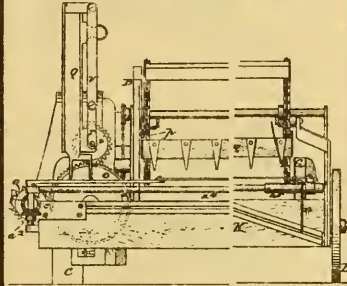
109,983. G. H. WHITE FRUIT BASKET.



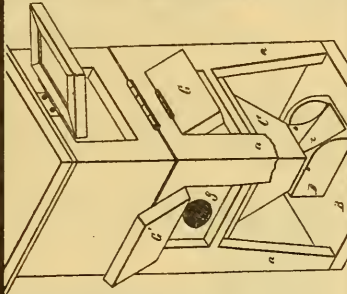
109,984. A. J. WHITNEY CANAL
WASTE WAY AND SLUICE GATE



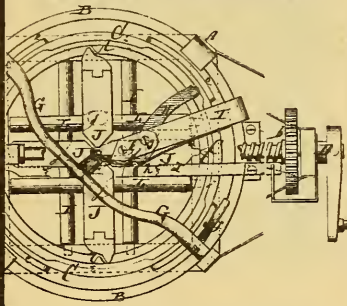
109,985. J. H. WHITNEY COMBINED
GRAIN HARVESTER AND BINDER



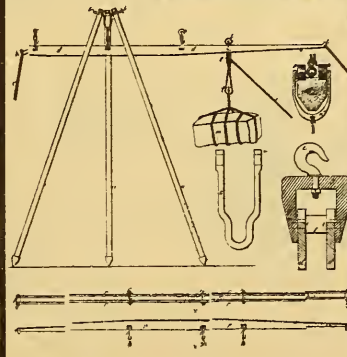
109,986. R. A. WILLIAMS BEE HIVE



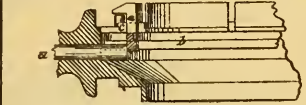
109,987. H. A. WILLS.
MACHINE FOR POINTING NAILS



109,988. N. WONLARLARSKY
HOISTING MACHINE.

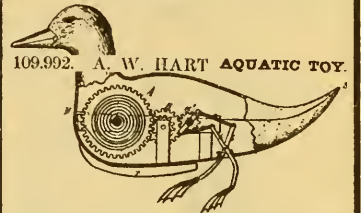


109,989. A. A. WOOD. WATCH CASE.



109,990. W. ZINSSER. COMPOUND
FOR TREATING MALT LIQUORS.

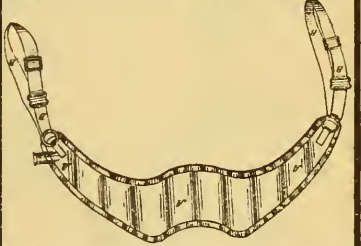
109,991. C. DELAMAR.
MANUFACTURE OF SUGAR OR SYRUP
FROM SWEET POTATOES.



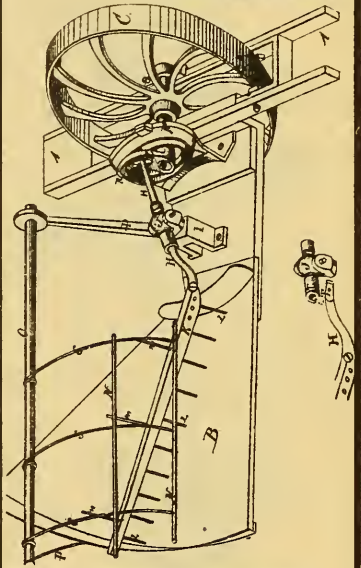
4,192. J. BARCLAY MANUFACTURE
OF PLATED METAL BRACELET.



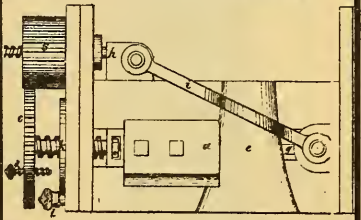
4,193 L. DEDERICK SLEEPING COLLAR.



4,194. H. H. SCOVILLE.
HARVESTER RAKE.



4,195. N. L. TOMLINSON TREENAIL.



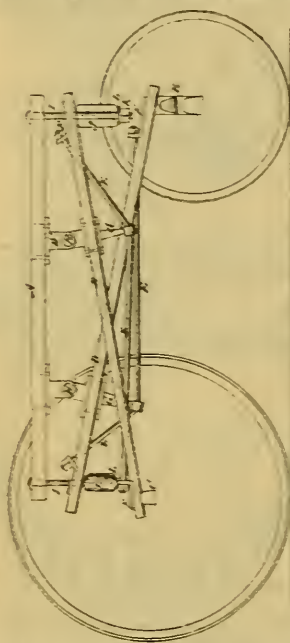
ILLUSTRATIONS OF PATENTS

ISSUED FROM

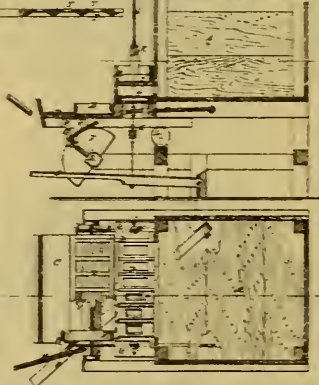
THE UNITED STATES PATENT OFFICE

DECEMBER 13, 1870.

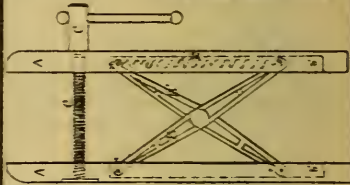
109,993. S. ABBOTT. CARRIAGE SPRING



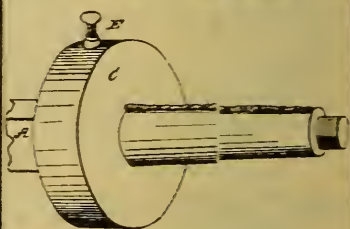
109,997. J. M. AUSTIN. BRICK MACHINE



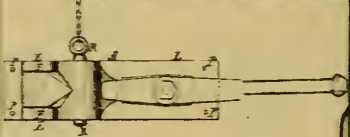
110,001. G. F. BISSELL. CARPENTER'S VISE



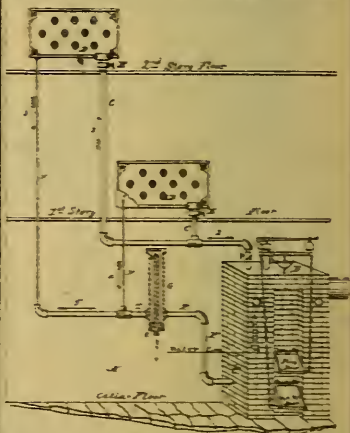
110,002. G. P. BLAISDELL. SELF LUBRICATING AXLE



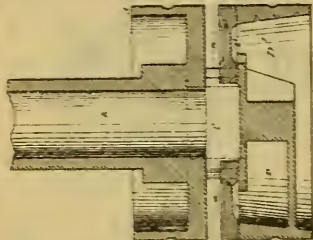
109,998. W. H. BARKER. CAT HEAD ANCHOR STOPPER



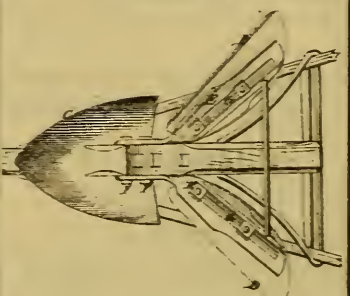
110,003. E. BOURNE. STEAM HEATER



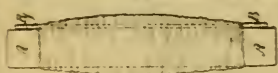
109,994. J. D. ALVORD. PUMP PISTON



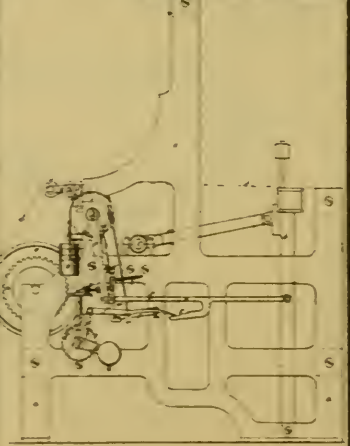
109,999. A. BENEDICT. SHOVEL PLOW



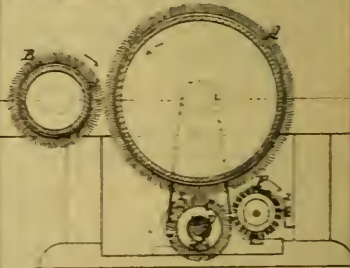
109,995. B. A. ARMSTRONG. HOLDER FOR SILK, &c.



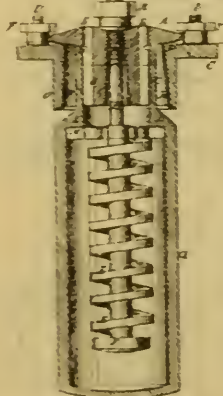
110,000. E. B. BIGELOW. LET OFF AND TENSION MECHANISM FOR POWER LOOMS.



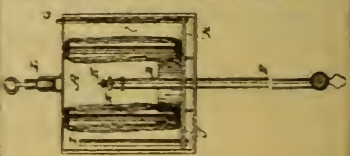
110,004. W. BOYNTON. CLEANER AND GRINDER FOR CARDING MACHINES.

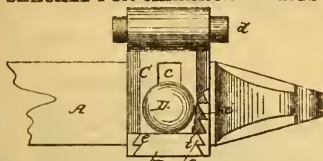


109,996. J. ARMSTRONG. SAFETY VALVE

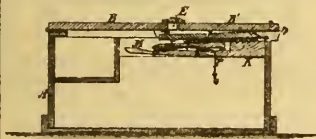


110,005. J. H. BROWN. GAS LAMP

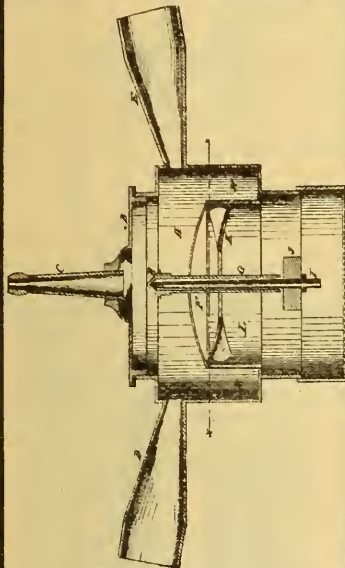


110,006. J. BULLARD ADJUSTABLE
SHACKLE FOR CARRIAGE SPRINGS

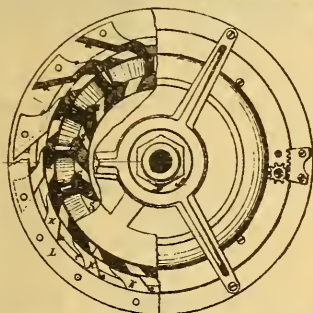
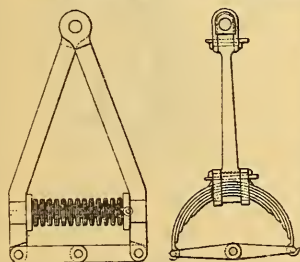
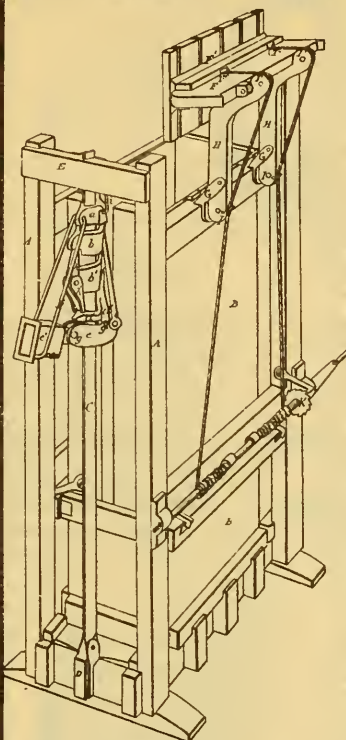
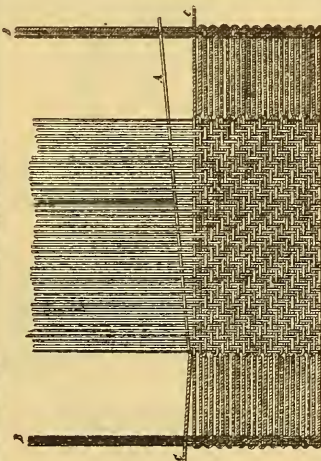
110,007. G. F. CARD TOOL CHEST.



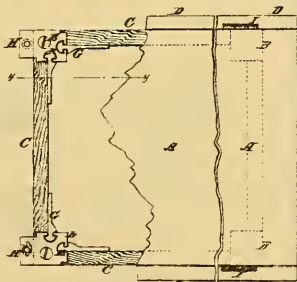
110,008 W. A. CARNS EXHAUST VALVE



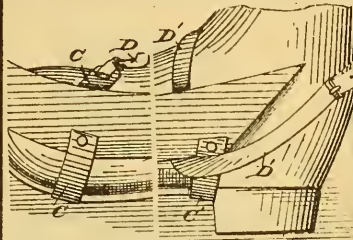
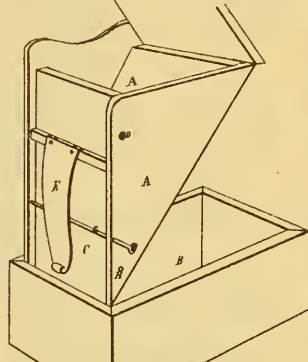
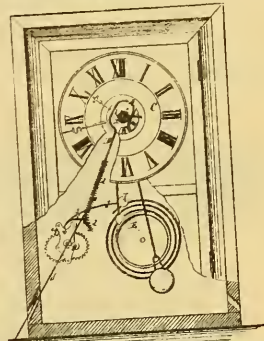
110,009. D. W. CASE WATER WHEEL.

110,010. G. F. CASE
STAMPING MILL OR CRUSHER.110,011. N. CHAPMAN
HAY AND COTTON PRESS.110,012. P. COCKER
WOVEN FRINGED FABRICS

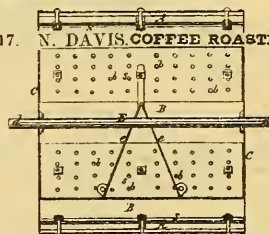
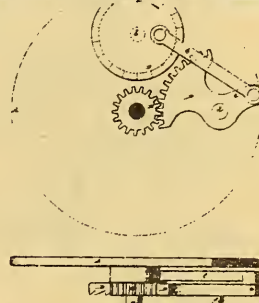
110,013. G. J. CONGLE TABLE.



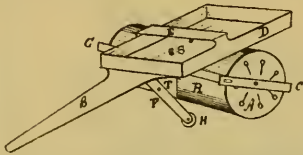
110,014. H. V. CORBETT CORN CUTTER

110,015. W. T. H. DANIELS
FEED REGULATOR110,016 J. H. DAVIS
ALARM ATTACHMENT FOR CLOCKS.

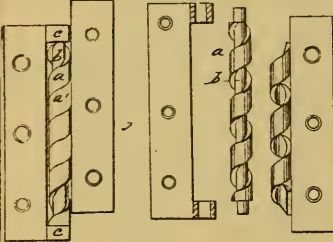
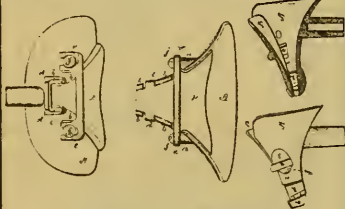
110,017. N. DAVIS COFFEE ROASTER

110,018. F. O. DEGENER. INKING
APPARATUS FOR PRINTING PRESSES

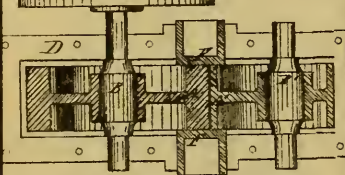
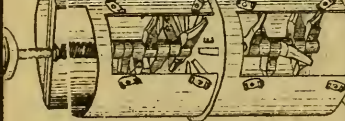
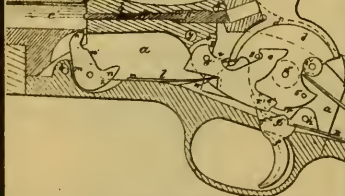
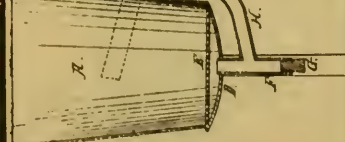
110,019. G. C. DOLPH LAND ROLLER



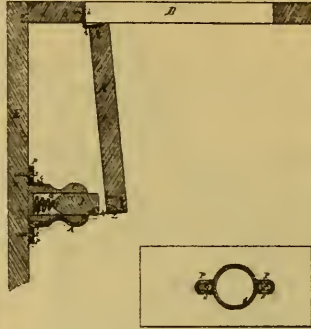
110,020. R. DRAHOTA HINGE

110,021. G. DRAPER.
TRUMPET FOR SPINNING MACHINES.

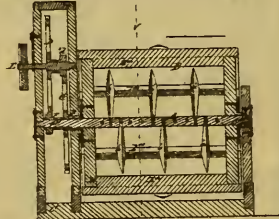
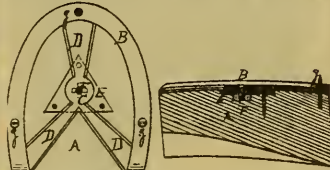
110,022 R. DUDGEON ROTARY ENGINE

110,023. J. S. ELLIOT MACHINE
FOR MIXING THE MATERIALS
TO FORM ARTIFICIAL STONE, &c.110,024. W. H. ELLIOT
BREECH LOADING FIRE ARM.110,025. P. FAIRNEY. MEDICAL
COMPOUNDS AND APPARATUS
FOR MAKING THE SAME.

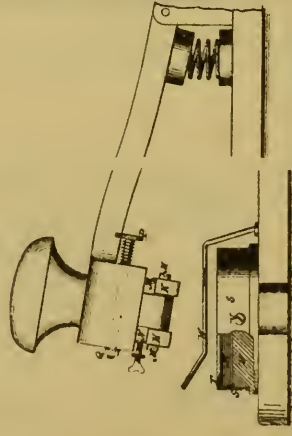
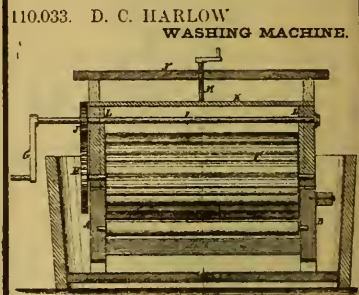
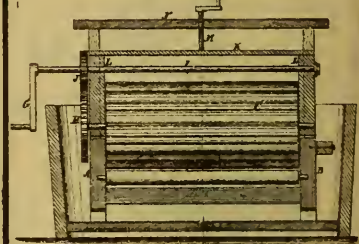
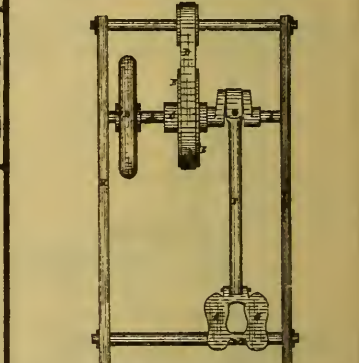
110,026. W. H. FAIRNEY DOOR STOP

110,027. F. W. GERDES.
MANUFACTURE OF PAINTS

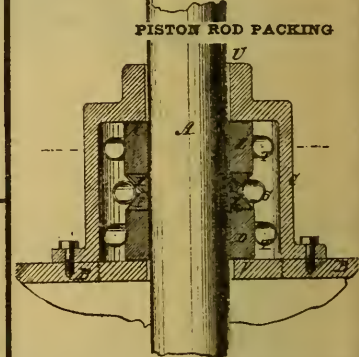
110,028 G. C. GERMAIN PIPE COUPLING

110,029. W. T. GILLINDER. MACHINE
FOR MIXING BATCH FOR GLASS.110,030. B. GIROUX. MODE OF
ATTACHING BOOT AND SHOE HEELS.

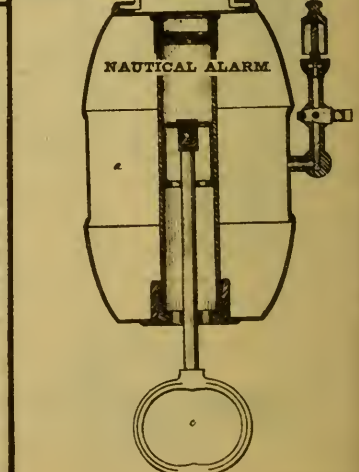
110,031 E. S. GOODMAN HAND STAMP.

110,032. J. GORMAN TYMPAN
SHEET FOR PRINTING PRESSES110,033. D. C. HARLOW
WASHING MACHINE.110,034. A. W. HARRIS. DEVICE
FOR DRIVING SEWING MACHINES.

110,035. W. HARTLEY.



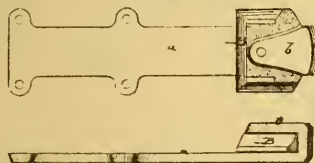
110,036. J. F. HASKINS.



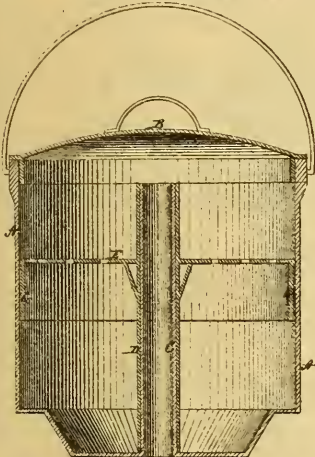
110.037. C. H. HELMS.
MODE OF ATTACHING COMPOSITION
HEELS TO BOOTS AND SHOES.



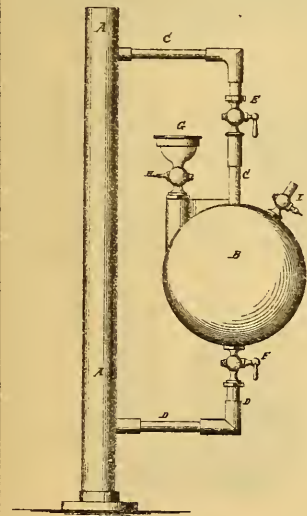
110.038. J. HERALD
CORE FOR CASTINGS.



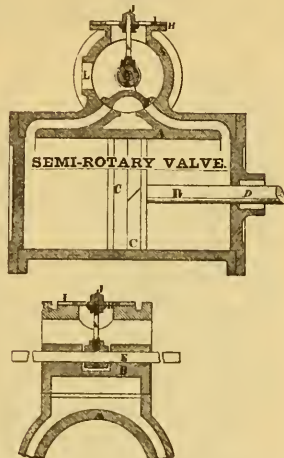
110.039. R. M. HERMANCE
CULINARY VESSEL.



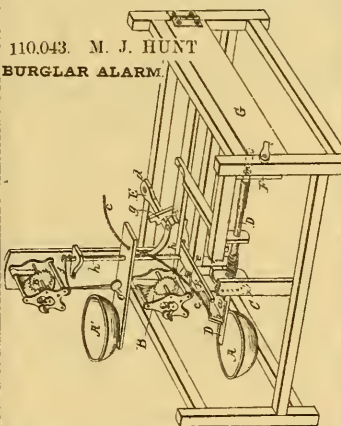
110.040. M. HINMAN LUBRICATOR.



110.041. J. F. HOLLOWAY



110.042. D. HULL. REFINING AND
DECOLORIZING SIRUP AND
OTHER LIQUIDS, AND MATERIAL FOR
THE SAME.

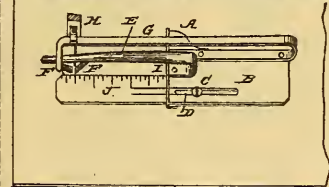


110.043. M. J. HUNT
BURGLAR ALARM.

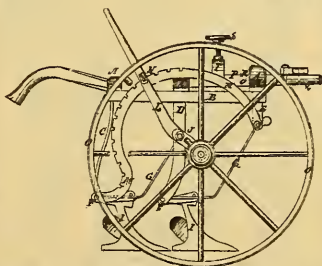
110.044. R. C. HUSSEY
STEAM JET BOILER TUBE CLEANER.



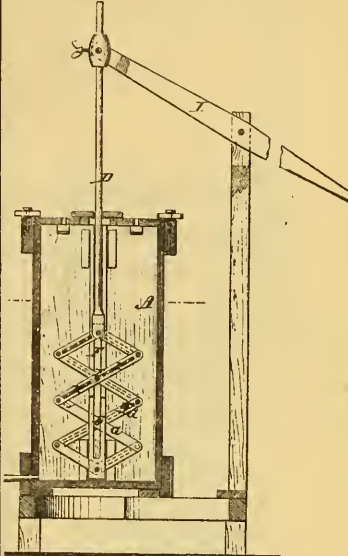
110.045. J. C. JENSENTUCK CREASING
ATTACHMENT FOR SEWING MACHINES



110.046. F. C. JEWELL. CULTIVATOR.

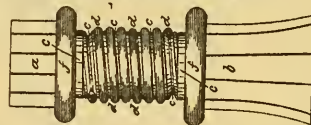


110.047. J. W. JORDAN CHURN.

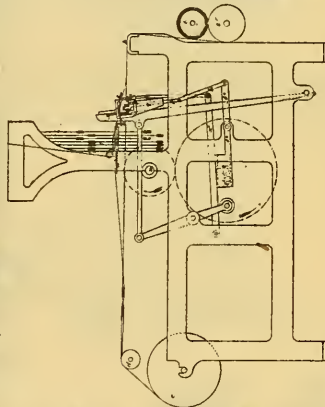


110.048. J. KIRCHER PRINTING INK.

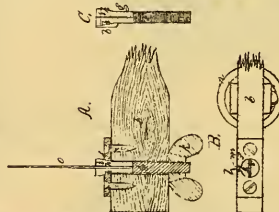
110.049. C. L. KNECHT GLASSWARE
AND METAL STEM CONNECTION.



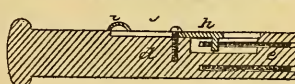
110.050. W. S. LAYCOCK LOOM.



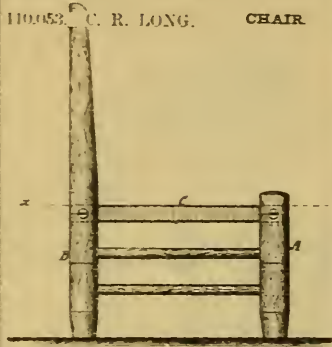
110.051. T. L. EVERITT BUHL SAW.



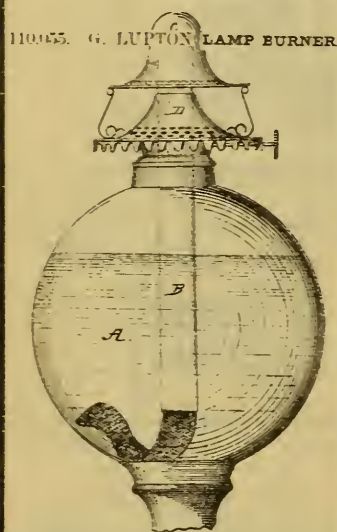
110.052
J. LOGAN AND D. W. ELDRIDGE
CARTRIDGE CAP EXTRACTOR



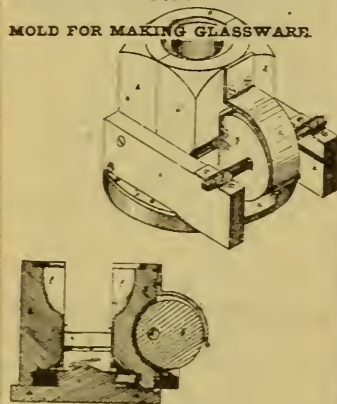
110,053. C. R. LONG. CHAIR.



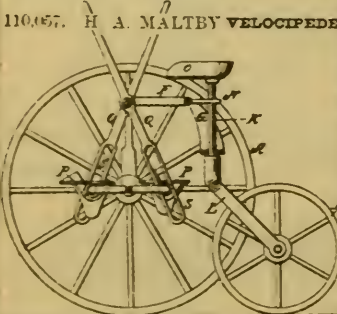
110,054. G. LUPTON. PURIFYING BENZINE.



110,055. J. B. LYON. MOLD FOR MAKING GLASSWARE.

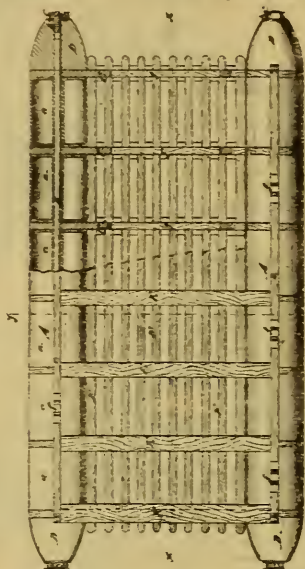


110,057. H. A. MALTBY VELOCIPEDE.

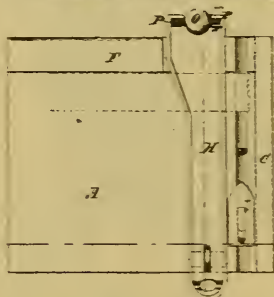


110,058. A. C. MAXFIELD. HAIR RESTORATIVE.

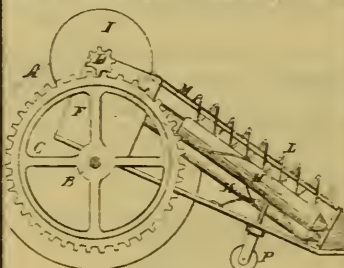
110,059. D. McFARLAND LIFE RAFT.



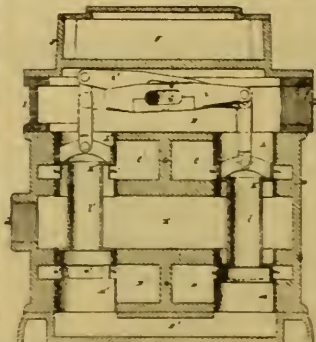
110,060. J. C. McLAREN. BELT SPlice POINT FINISHER.



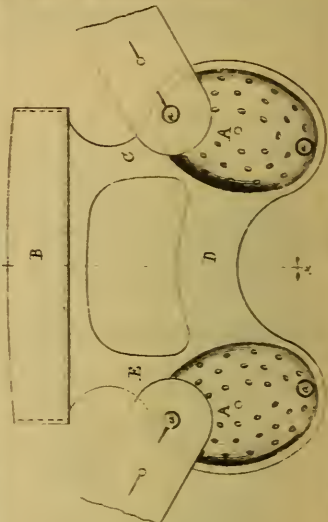
110,061. G. AND C. MEADER FIELD. CORN PICKING AND HUSKING MACHINE.



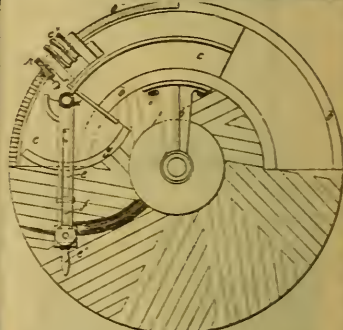
110,062. C. MOORE LIQUID METER.

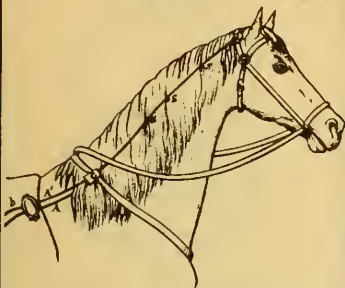
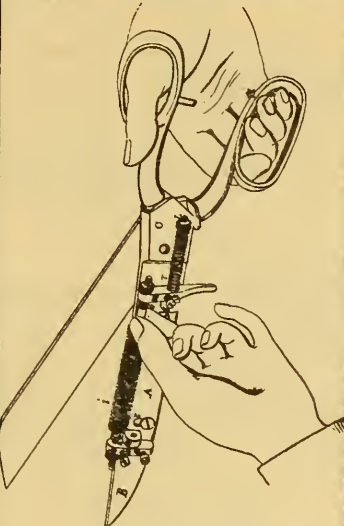


110,063. C. MORRILL TRUSS.



110,064. J. I. NORTON. APPARATUS FOR DRESSING AND FURROWING MILLSTONES.

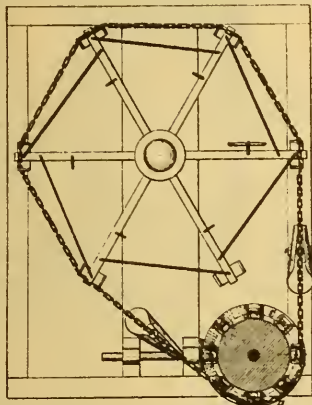


110.068. C. PHELPS
ELASTIC MANE TURNER110.073. A. G. RISLEY DEVICE FOR
TRIMMING CYLINDRICAL BRUSHES.

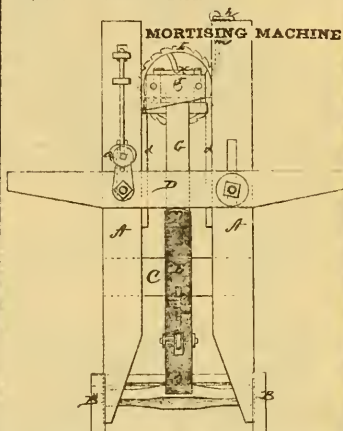
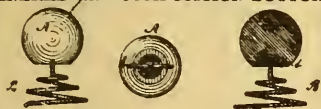
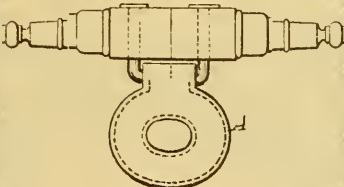
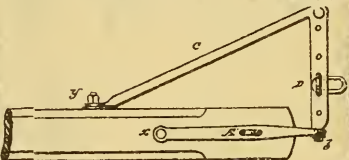
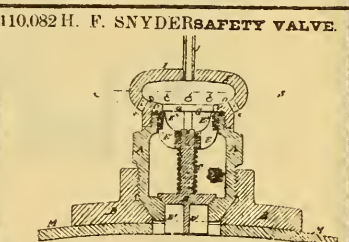
110.078 C. SHOLL SASH LOCK.



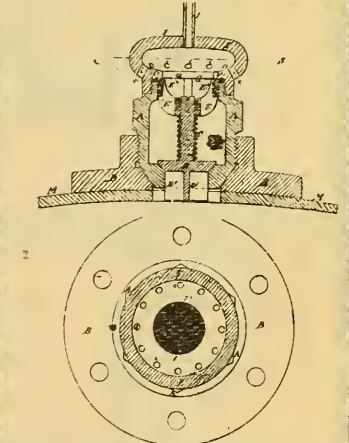
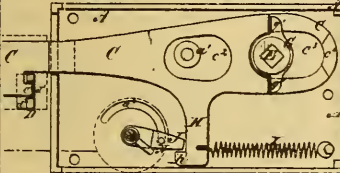
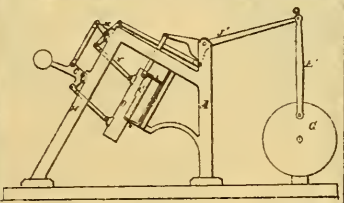
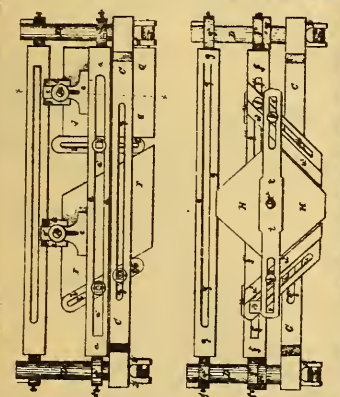
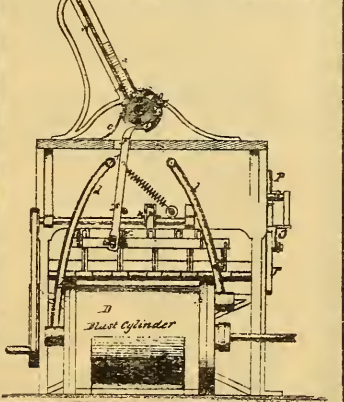
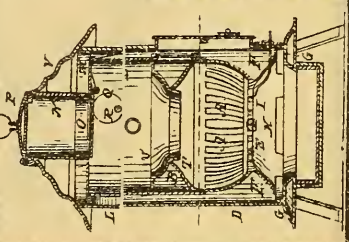
110.069. H. PITCHER CHAIN CLUTCH.



110.079. W. H. SIBLE

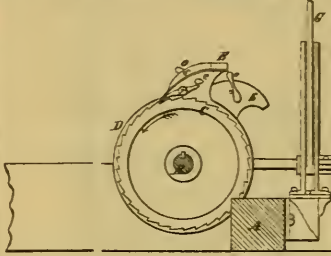
110.070. C. L. POTTER DEVICE
FOR ATTACHING THE SHANK TO
MINERAL AND COMPOSITION BUTTONS110.074. H. SANDERS LEATHER
FOR NECK YOKE FOR CARRIAGES.110.080. H. C. SIEVERLING
FLOW CLEVIS ATTACHMENT.110.081. M. SMITH PROCESS
OF REMOVING EARTHY MATTER
FROM BRONZE AND OTHER CASTINGS

110.082 H. F. SNYDER SAFETY VALVE.

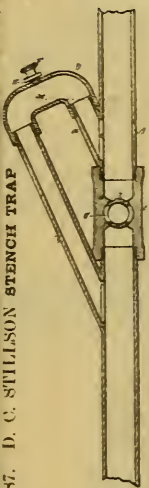
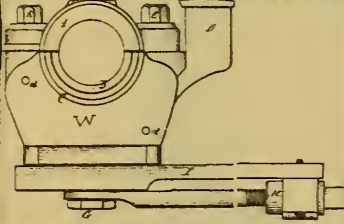
110.071. F. M. RANOUS
COMBINED LOCK AND LATCH110.075. E. O. SCHANTAN
MACHINE FOR CUTTING CORKS.110.076. E. O. SCHANTAN
CORK MACHINE110.072. P. C. RENIERS
BASKET FOR TILE GRINDERS.110.077. W. S. SHIPLEY
TYPE SETTING MACHINE110.0831. SNYDER AND P. C. GARRETT
BASE BURNING STOVE

110.084. P. SPENCE. MANUFACTURE
OF ALUM AND FERTILIZER FROM
MINERAL PHOSPHATES.

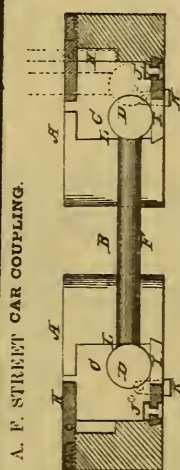
110.085. F. J. STALEY
HEAD BLOCK FOR SAW MILLS



110.086. E. H. STEARNS. JOURNAL BOX

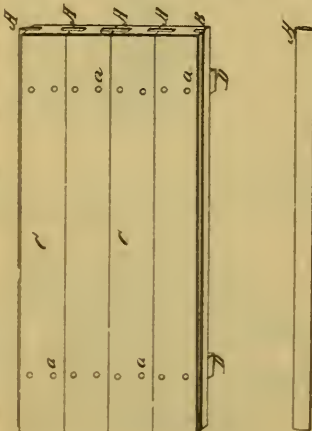


110.087. D. C. STILLSON. STENCH TRAP

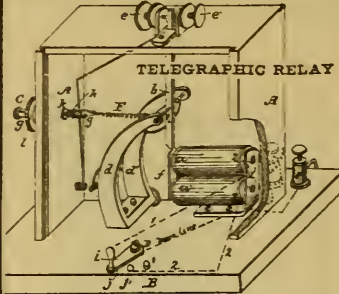


110.088. A. F. STREET. CAR COUPLING.

110.089. J. A. THOMPSON
METHOD OF UNITING WOOD

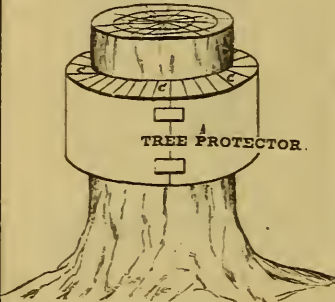


110.090. B. B. TOYE.



TELEGRAPHIC RELAY

110.091. C. H. TRUMBULL



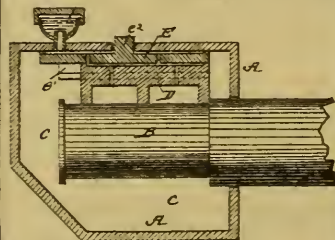
TREE PROTECTOR.

110.092. C. AND W. H. TUCKER

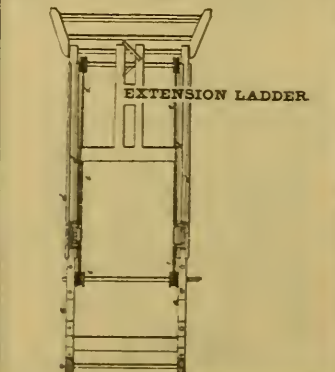


ALARM TILL

110.093 J. WARDROBE, C. D. R. FISK
J. F. CURTIS, AND G. FETLEY.
RAILWAY AXLE BOX

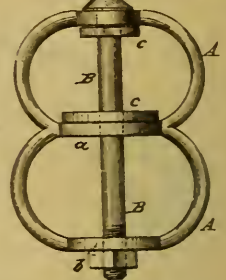


110.094. T. WATSON AND C. PERRY

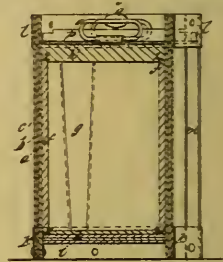


EXTENSION LADDER.

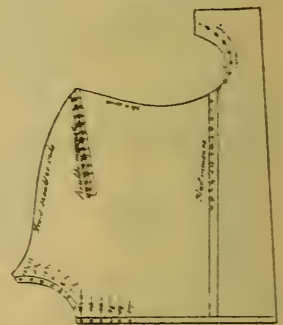
110.095. D. WERST.
DOUBLE TREE FASTENER



110.096. J. W. WESTON. BARREL



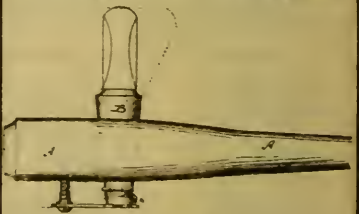
110.097. F. WETMORE
PATTERN FOR MEASURING AND
LAYING-OUT GARMENTS



110.098. L. H. WHITNEY
ROLLER SHAFT FOR WRINGERS.

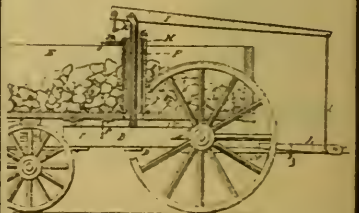


110.099. F. WIESENHOFFER. FAUCET.

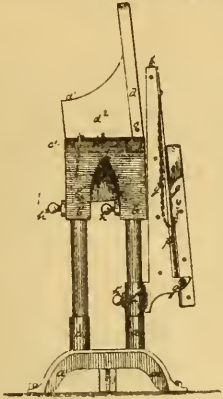
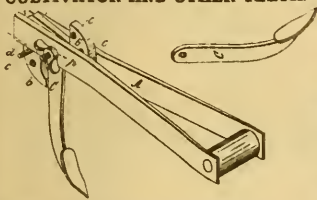


110.100. G. A. WILCOX

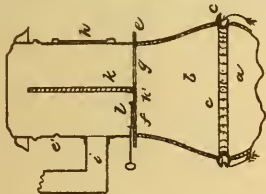
WEIGHING WAGON.



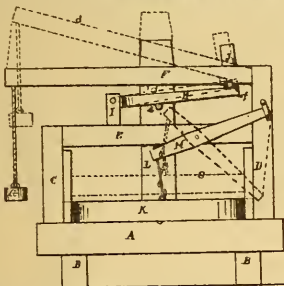
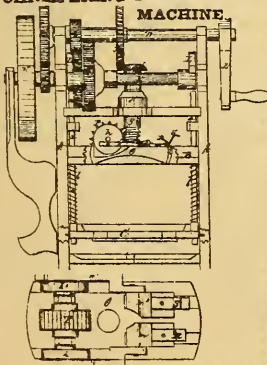
110,101. E. WILSON SCHOOL DESK.

110,102. J. F. WOOD.
MANUFACTURE OF EMERY WHEELS.110,103. W. WORKMAN AND
J. HITCHCOCK
FRICTION BLOCK FOR ATTACHING
CULTIVATOR AND OTHER TEETH.

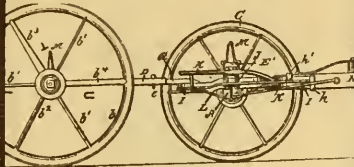
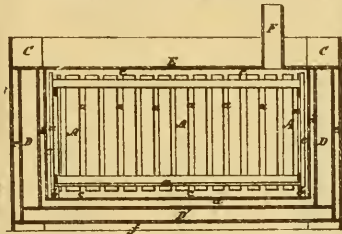
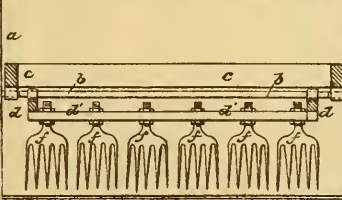
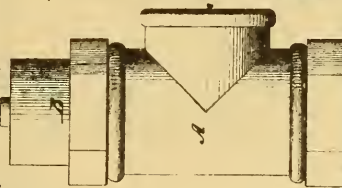
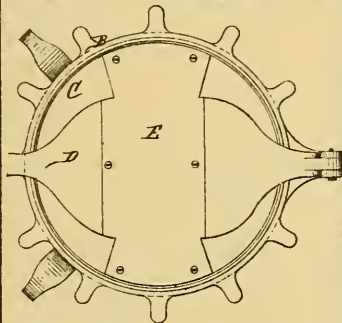
110,104. T. YOUNG HEATING STOVE.



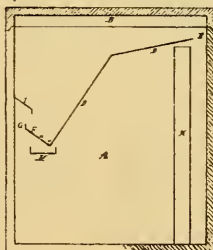
110,105. R. ALLEN CHEESE PRESS.

110,106 T. M. ANNIS AND T. B. LUCE
BARREL CHAMFERING AND GROZING
MACHINE.

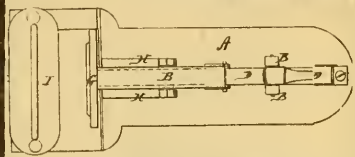
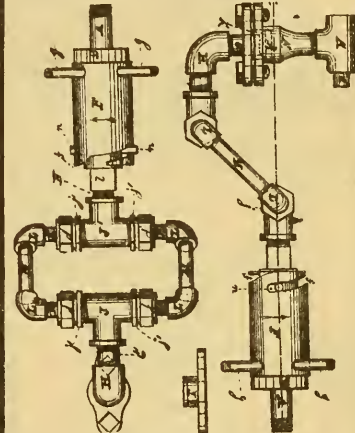
110,107. E. BALL JR. WAGON.

110,108. H. T. BANYE.
PRESERVING SWEET POTATOES.110,109. H. BELMONT MACHINE
FOR TILLING OR CULTIVATING.110,110. A. J. BLAKSLEE AND
G. C. WILLIAMS STEAM JET PUMP.110,111. G. E. BRINGMAN
MEAT AND VEGETABLE CUTTER.

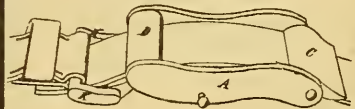
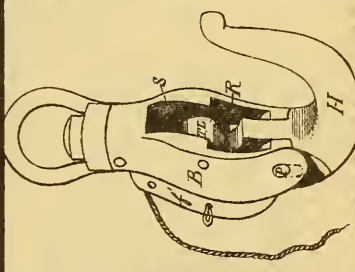
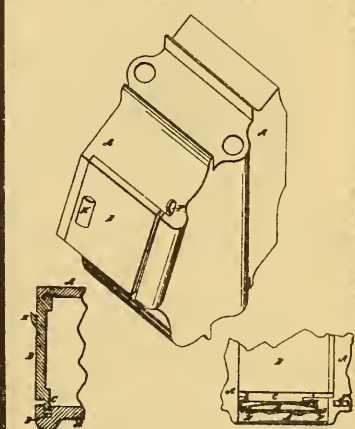
110,112. A. J. CHASE REFRIGERATOR.



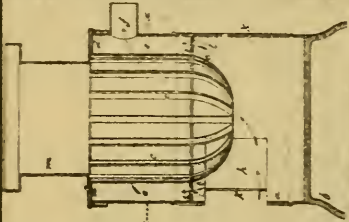
110,113. J. F. CLARK BRICK PRESS.

110,114. J. CONNER STEAM PIPE
COUPLING FOR RAILROAD CARS.

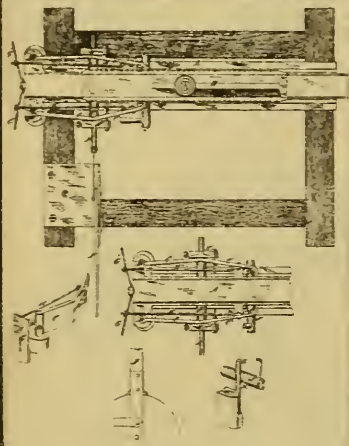
110,115. E. P. CORWIN BUCKLE.

110,116. J. C. COTTINGHAM
BOAT DETACHING APPARATUS.110,117. D. COWLEY.
CAR AXLE BOX COVER.

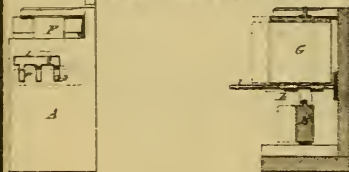
110.118 L. CRANDALL
FURNACE FOR BURNING SHAVINGS



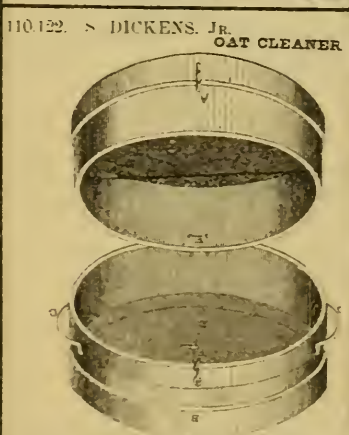
110.119P M. CUMMINGS HEAD BLOCK



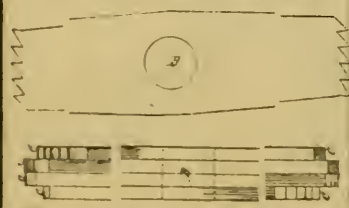
110.120. W. G. DAY
PIANO FORTE ACTION



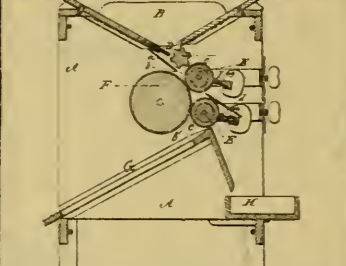
110,121 E. J. DESMEDI
ASPHALT ROAD AND PAVEMENT



110123 J DILL GROOVING TOOL



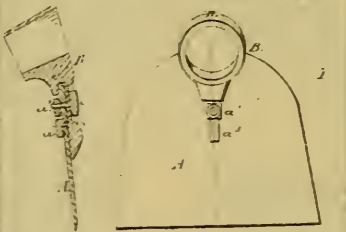
110.124. W. G. AND H. T. DOUGLASS
AND J. M. REED. MACHINE FOR
SEPARATING COCKLE FROM WHEAT



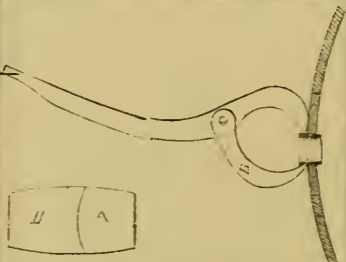
110.125. J. M. EARLE.
COFFEE TEA AND SPICE CAN



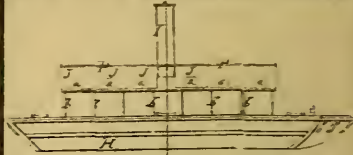
110.126. J. AND A. FAIRLEY HOE.



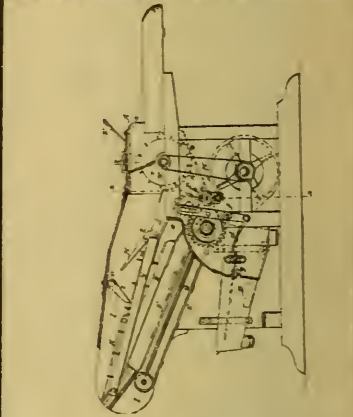
110.127D. F. FETTERBUNG ELEVATOR.



110,130. L. F. FRAZEE COAL BARGE.



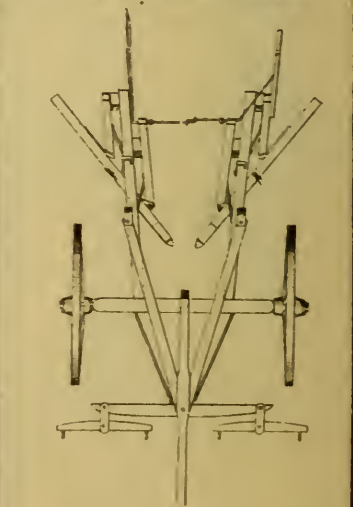
110,131. H. GILL.
GRAIN THRASHER AND SEPARATOR

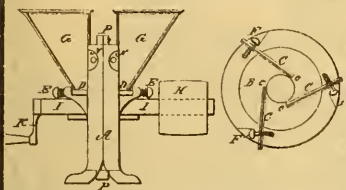
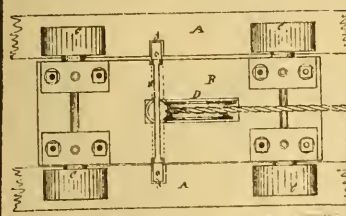
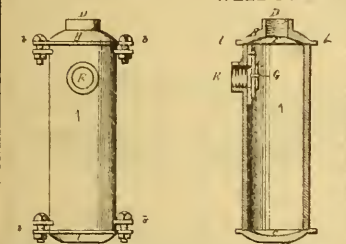


110.132. J. W. W. GORDON
TREADLE FOR SEWING MACHINES.

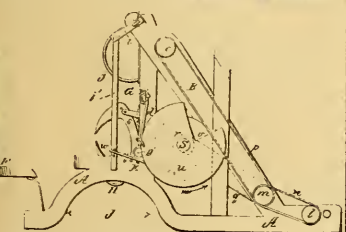
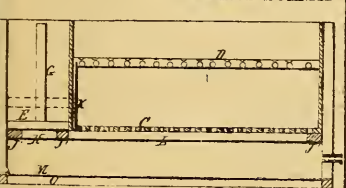
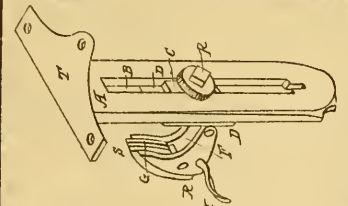


110.133. J. M. HARPER. HARROW.

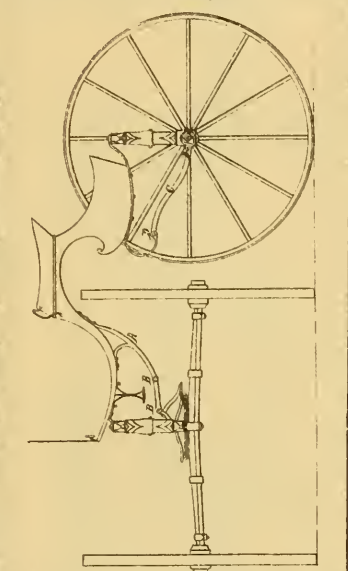


110.134. J. HARRINGTON
COTTON SEED HULLER.110.135. T. E. HAYMOND
HAY ELEVATOR AND CONVEYER.110.136. G. W. HEMERWAY
WELL TUBING.110.137. I. BOGELAND
CLOTHES DRIER.

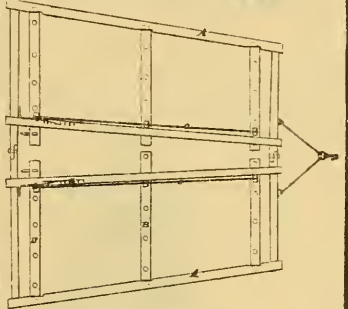
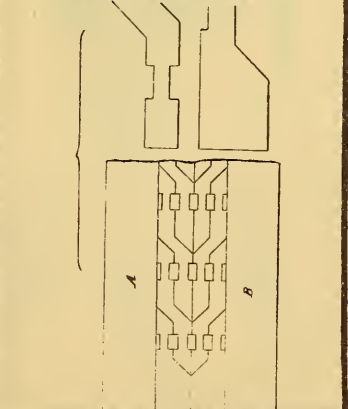
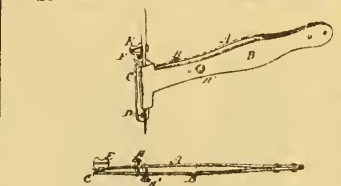
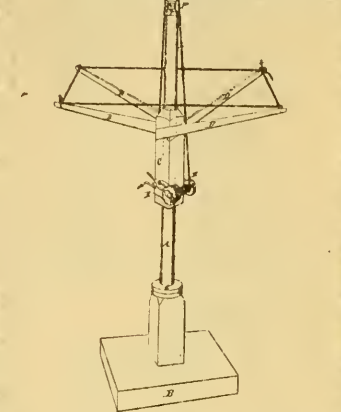
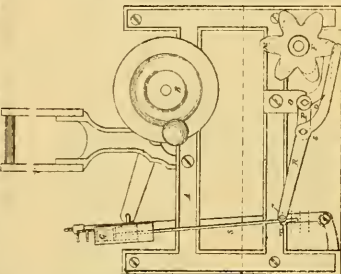
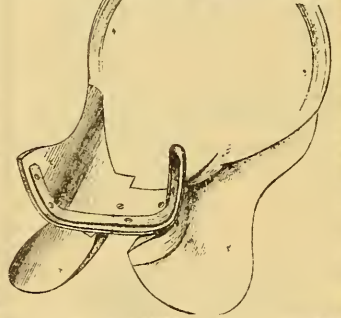
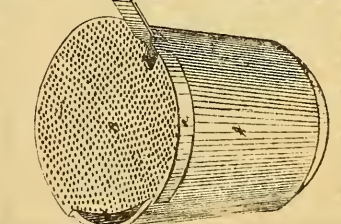
110.138. A. S. HOYT GRAIN BINDER.

110.139. J. H. HUNTER.
FARMER'S BOILER.110.140. J. W. JACOB.
BRAKE FOR SEWING MACHINES.

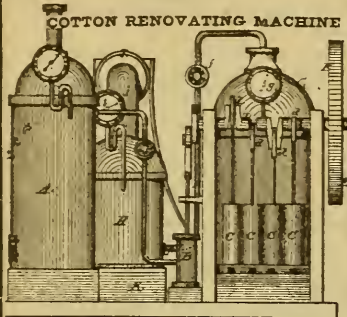
110.141. J. JACK VEHICLE.



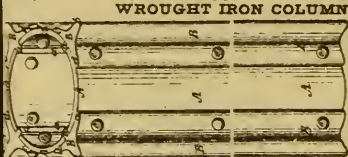
110.142. D. L. JAQUES HARROW.

110.143. J. JEAVONS
PILE FOR ARMOR PLATES.110.144. J. KARR NEEDLE
SETTER FOR SEWING MACHINES.110.145. J. W. KENNING
CLOTHES DRIER.110.146. L. J. KNOWLES MECHANISM
FOR OPERATING SHUTTLE
BOXES IN LOOMS.110.147. A. LAWRENCE
SIDE SADDLE TREE.110.148. J. LEACH.
COVER FOR TEA AND COFFEE CUPS.

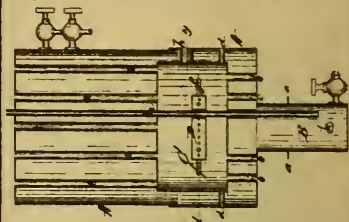
110,149. J. B. LYENS.



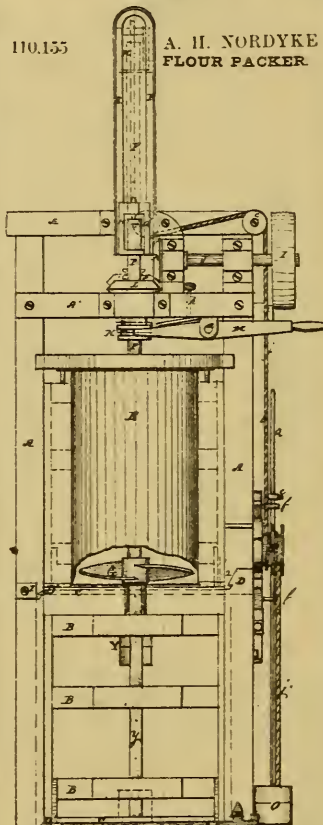
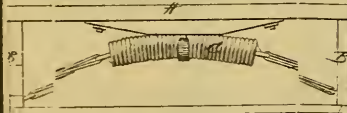
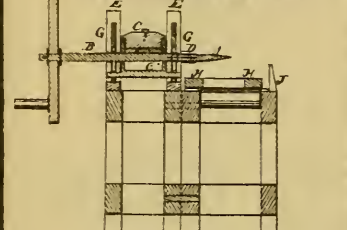
110,154. J. W. MURPHY.



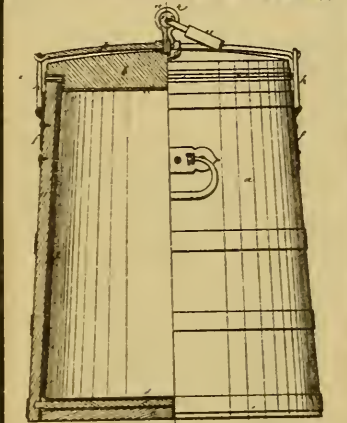
110,158. P. QUINN STEAM OILER



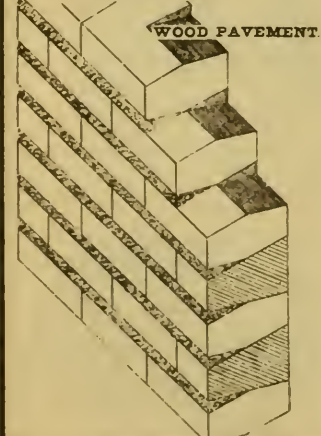
110,155

A. H. NORDYKE
FLOUR PACKER110,150. W. MEAD, F. D. MAY, AND
R. L. HOYT
SPRING SEAT FOR VEHICLES.110,151. T. M. MILLETT, SR.
GEARING FOR MACHINERY

110,152. L. MORRIS MILK CARRIER.



110,153. W. S. MORSE.



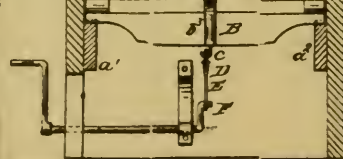
110,156. T. J. NOTTINGHAM

LUBRICATOR

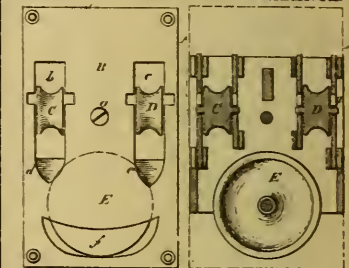
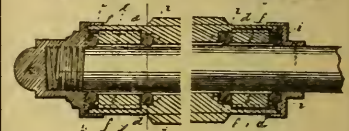
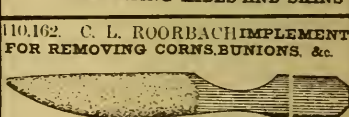
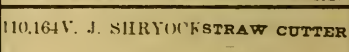


110,157. I. PICKARD

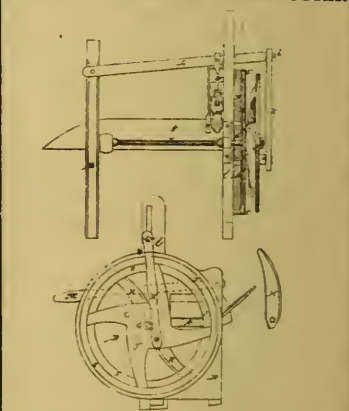
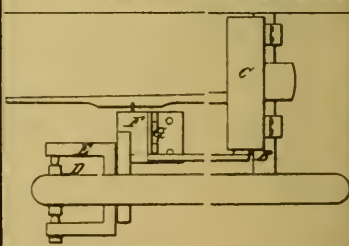
COAL GRATE

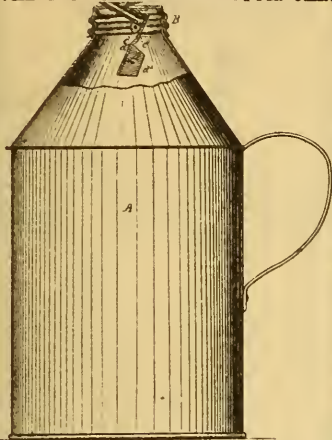
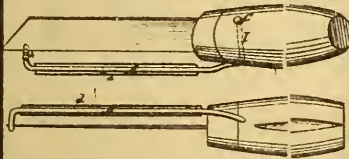


110,159. C. R. RAND SASH BALANCE

110,160. W. O. REID.
ANTI FRICTION BOX FOR AXLES110,161. L. F. ROBERTSON COMPOUND
FOR BATING HIDES AND SKINS110,162. C. L. ROORBACK IMPLEMENT
FOR REMOVING CORNS, BUNIONS, &c.110,163. J. SCHIEDER MATERIAL FOR
BEARING SURFACES IN MACHINERY

110,164. V. J. SHRYOCK STRAW CUTTER

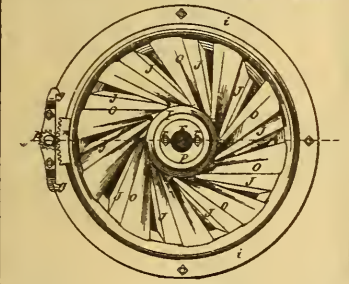
110,165. S. F. SMITH
SANDPAPERING MACHINE

110,166. H. S. SNOW SELF ACTING
VALVE OR CUT-OFF FOR LIQUID CANS110,167. H. SOGGS.
FRUIT AND VEGETABLE PARER.

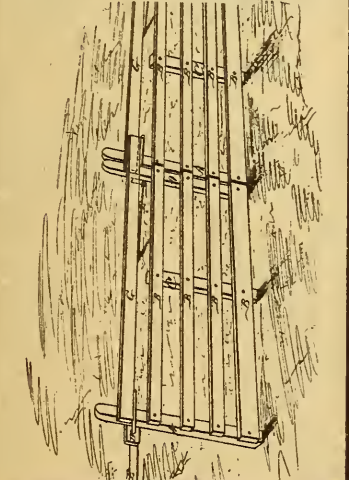
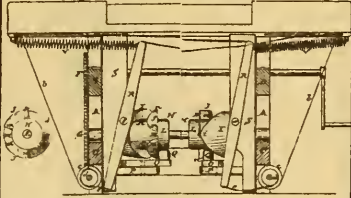
110,168. G. N. STEARNSSPOKE SHAVE



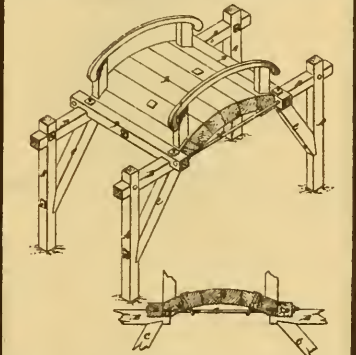
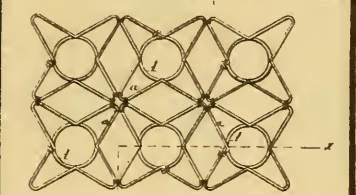
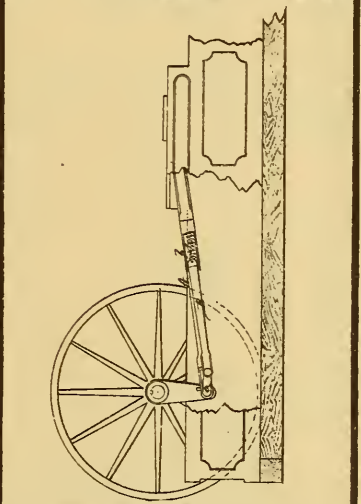
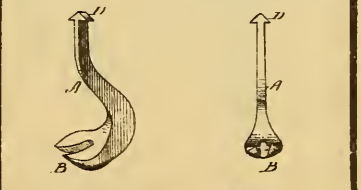
110,169. R. STINSON WATER WHEEL.



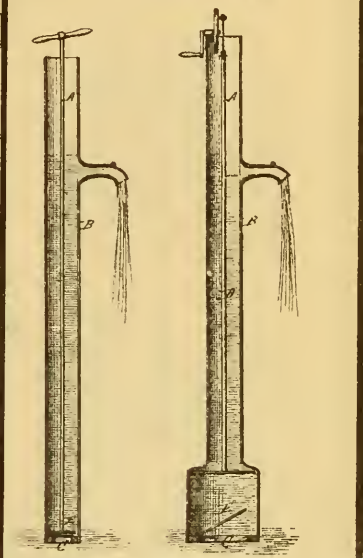
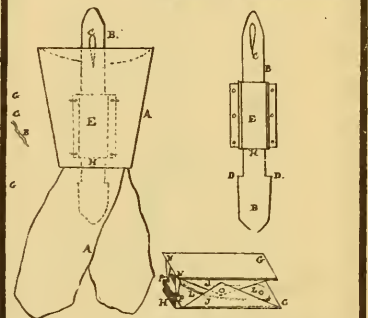
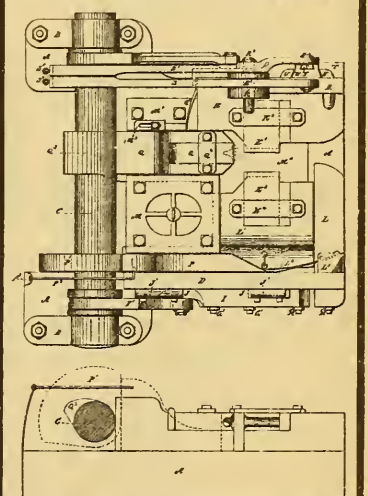
110,170. W. W. SULLIVAN FENCE.

110,171. E. P. TERRILL SHUTTLE
OPERATING MECHANISM FOR LOOMS.110,172. W. A. TORREY INDIA
RUBBER AND COMBINATION HOSE

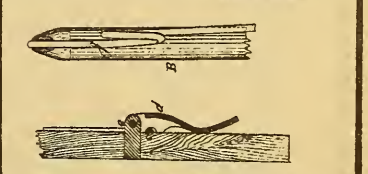
110,173. M. TURLEY BRIDGE.

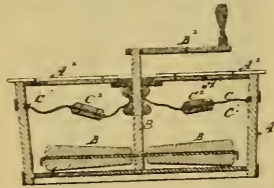
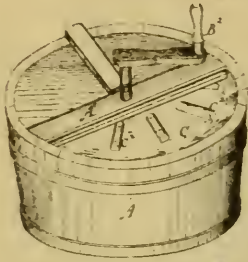
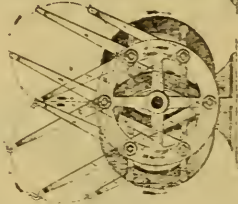
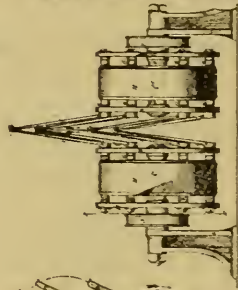
110,174. H. C. VELIE.
UPHOLSTERING SPRING110,175. W. WALKER.
MECHANICAL MOVEMENT.110,176. W. G. WARD
NAIL EXTRACTOR.

110,177. W. G. WARD PUMP.

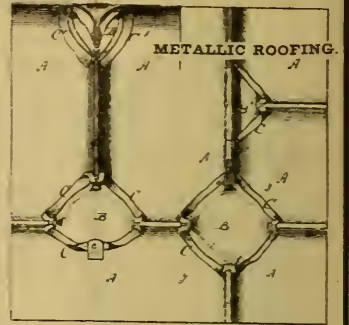
110,178. W. A. WICKS
NECKTIE SUPPORTER110,179. C. H. WILLIAMS MACHINE
FOR MAKING COUPLING PINS

110,180. L. WILLIAMS MOP HEAD.

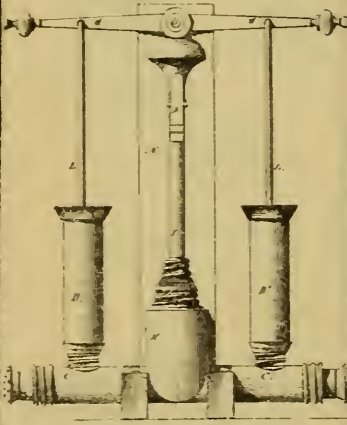


110.181 G. L. WITSIL
WASHING MACHINE110.185 J. WOOLF.
MECHANICAL MOVEMENT

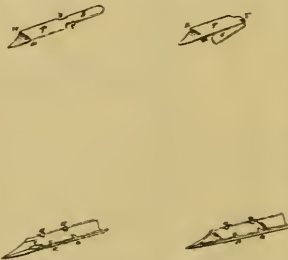
4.188. S. HUGHES



110.182. H. E. WOLCOTT PUMP.



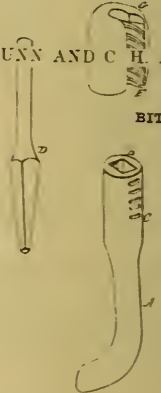
110.186. G. W. WOOLLEY PEN.



4.189

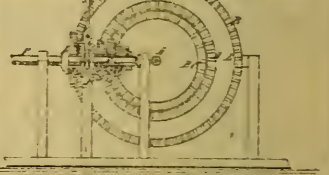
L. J. GUNN AND C. H. AMIDON

BIT STOCK

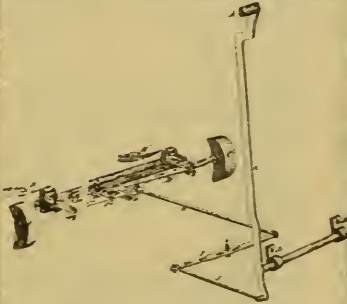
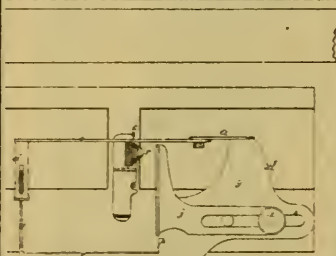
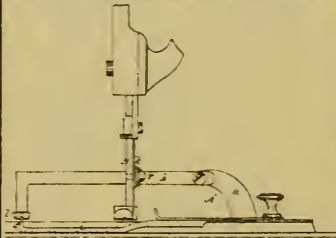
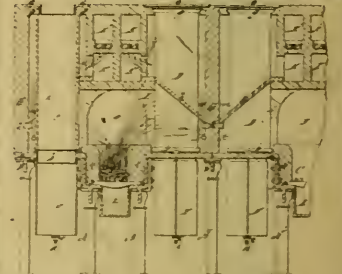
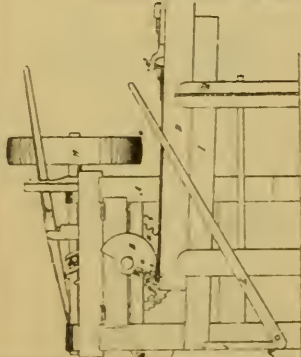


4.200. J. V. STRAIT.

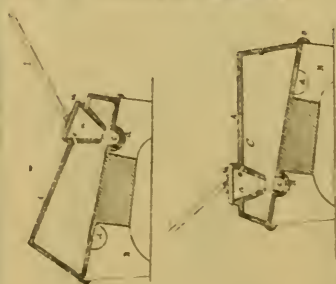
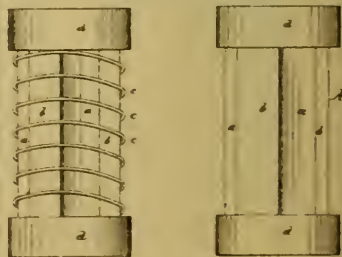
GEARING FOR MOWING MACHINES.



110.183. J. WOLFLA WAGON BRAKE

4.196. J. BOLTON TUCK CREASING
DEVICE FOR SEWING MACHINES4.201. A. WEBER
FURNACE FOR BURNING BONE BLACK
AND OTHER SUBSTANCES110.184 J. WOODBURN AND
S. F. SMITH MACHINE FOR
BENDING PLOW HANDLES

4.197. S. DARLING INKSTAND.

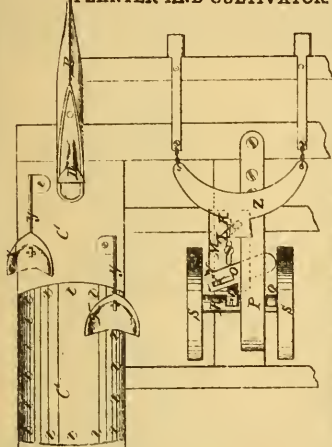
4.202. THE NATIONAL SPRING
COMPANY COMBINED INDIA RUBBER
AND STEEL SPRINGS

ILLUSTRATIONS OF PATENTS

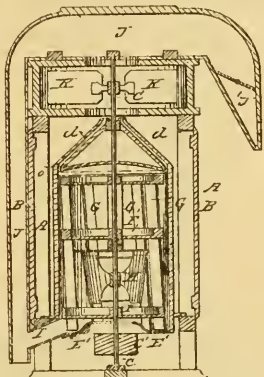
ISSUED FROM

THE UNITED STATES PATENT OFFICE

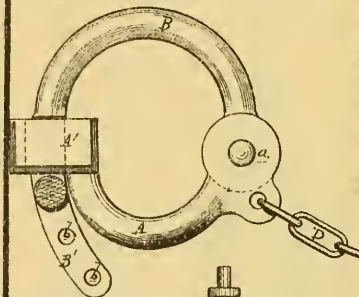
DECEMBER 20, 1870.

110,187. S. BACHER
PLANTER AND CULTIVATOR.

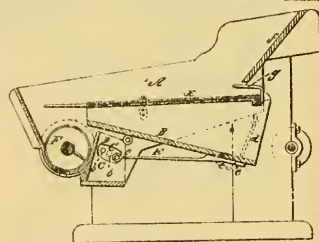
110,191 J. A. BENZING, JR. SMUT MILL.



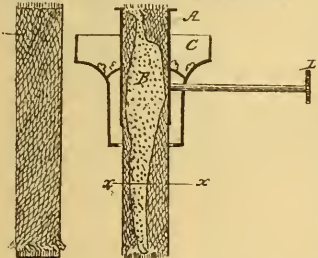
110,195. B. BRISCOE SEAL LOCK.



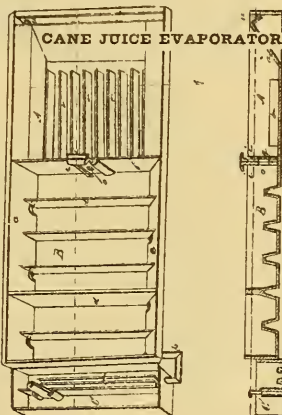
110,196. L. BRONSON FANNING MILL.



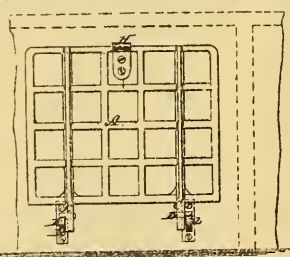
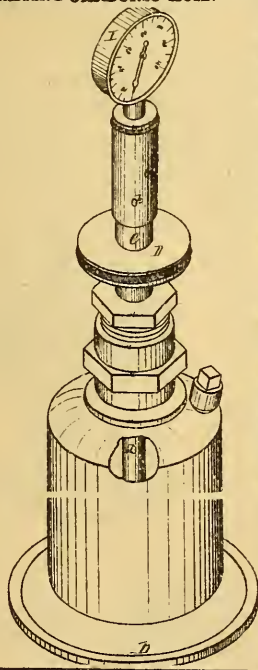
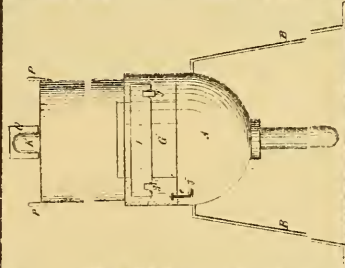
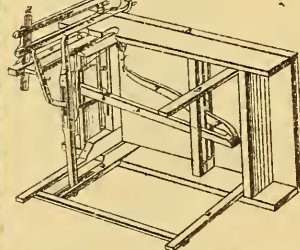
110,188. P. BAKER LAMP WICK.



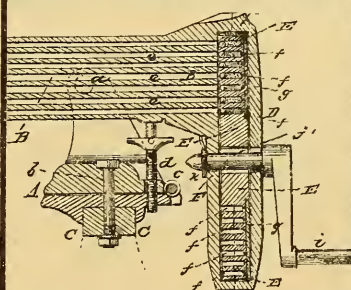
110,192. J. S. BLYMYER.



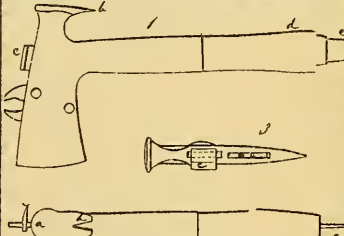
110,197. D. BUCHANAN FEW SHELF.

110,189. H. BALMAIN
PACKING CAUSTIC ALKALIES110,190. W. H. BATE APPARATUS FOR
GENERATING CARBONIC ACID.110,193. J. W. BRADY
APPARATUS FOR PITCHING BARRELS110,198. I. BYRD AND T. BYRD, JR.
VICE.

110,194E. BREHM REVOLVING CANNON



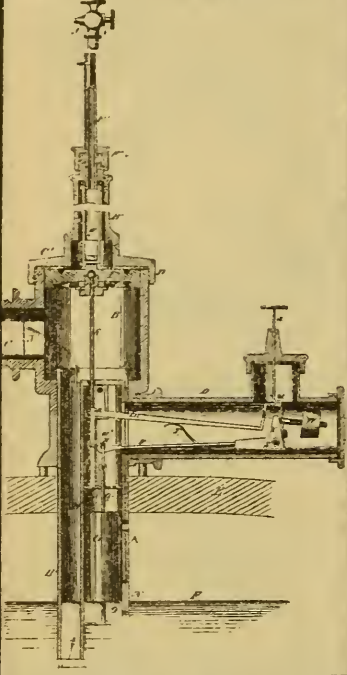
110,199. J. W. CALEP IMPLEMENT.



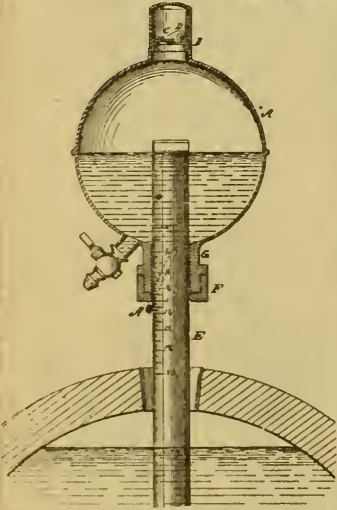
110.200. D. M. CASTLE CLEVIS.



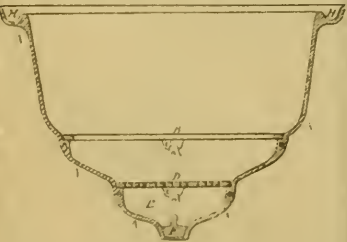
110.201. S. C. CATLIN BARREL FILLER.



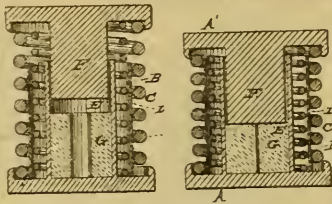
110.202. S. C. CATLIN LIQUOR TRIF AND MEASURE.



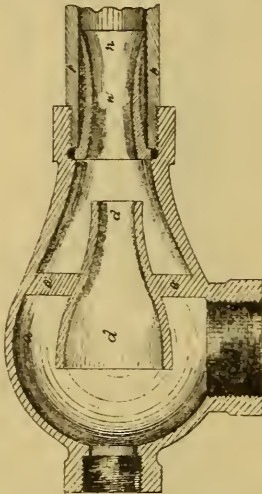
110.203. E. G. CHORMANN AND F. McLAUGHLIN KITCHEN AND HOUSEHOLD SINK.



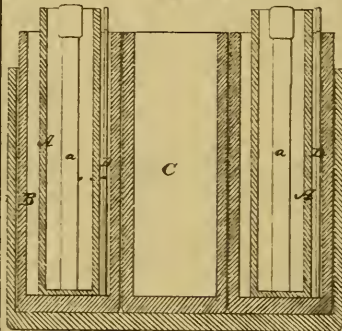
110.204. J. W. COCHRAN CAR AND OTHER SPRING.



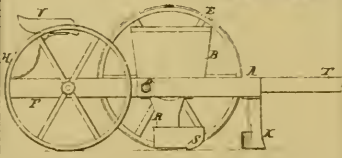
110.205. H. COLL EJECTOR.



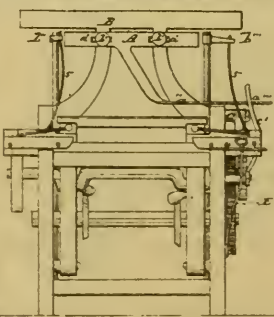
110.206. D. McF. COOK. GALVANIC BATTERY.



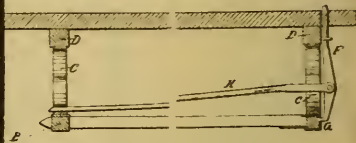
110.207. R. B. AND H. CORSON CORN PLANTER.



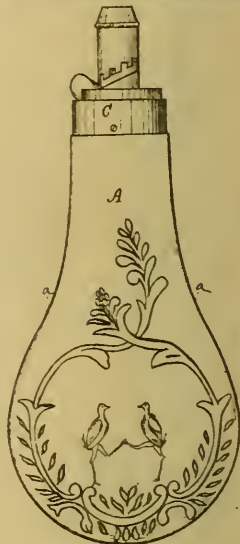
110.208. J. COWNGILL STOPPING MECHANISM FOR LOOMS.



110.209. C. DANIEL VEHICLE.



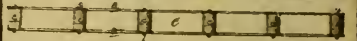
110.210 F. E. DARROW POWDER FLASK.



110.211. A. DAVIS. TRANSPLANTING IMPLEMENT.



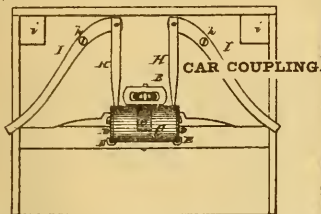
110.212. T. DAVIS MOTIVE POWER APPARATUS.



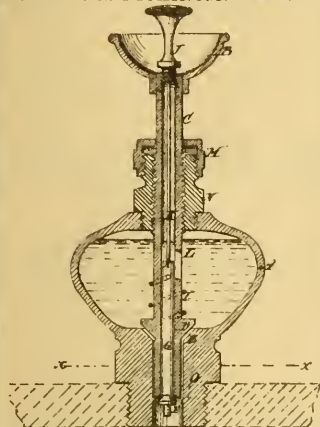
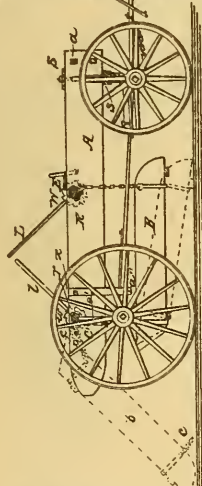
110.213. B. DAY. SECTIONAL IMAGE.



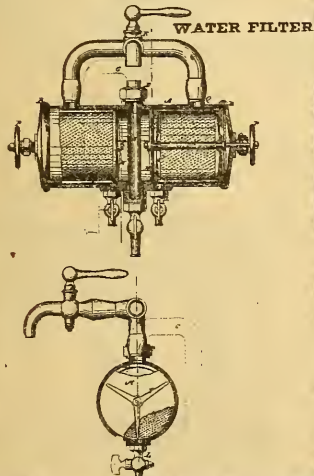
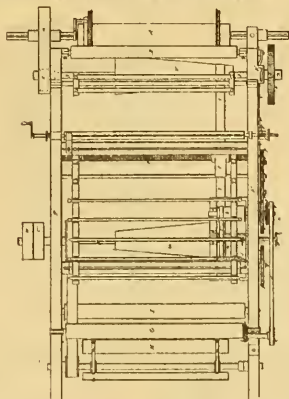
110,214. J. C. DEARBORN



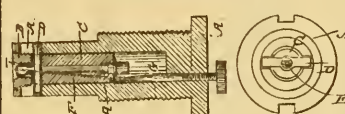
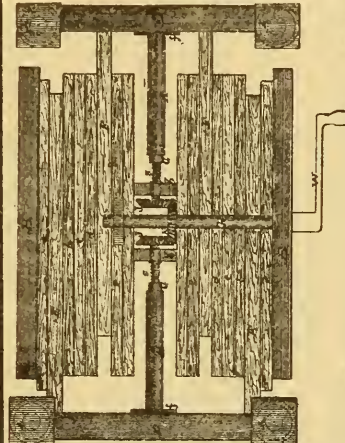
110,215. J. L. DICKINSON LUBRICATOR

110,216. W. D. DORSEY PORTABLE
LOADING AND DUMPING MACHINE.

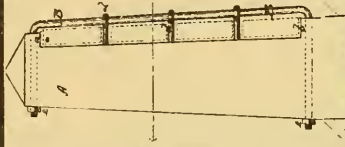
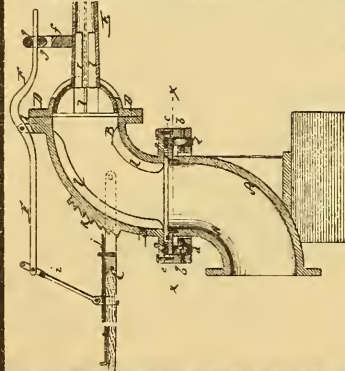
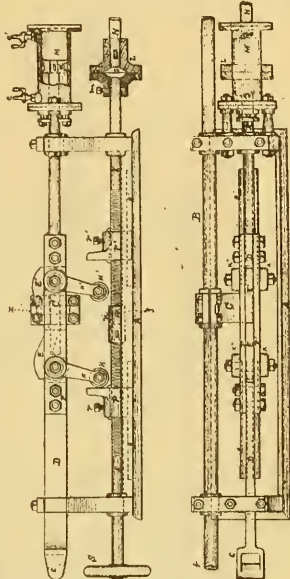
110,217. J. W. DOUGHERTY

110,218. G. DRAPER MACHINE
FOR BEAMING YARNS OR WARPS.

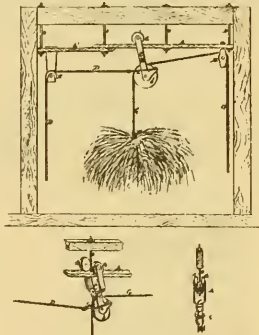
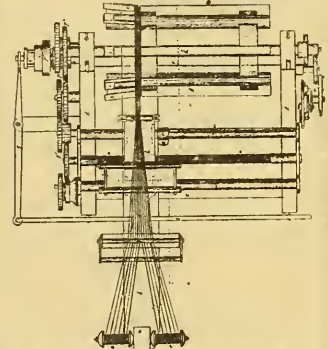
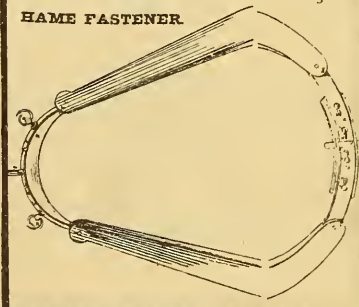
110,219. J. EGGO SHELL FUSE.

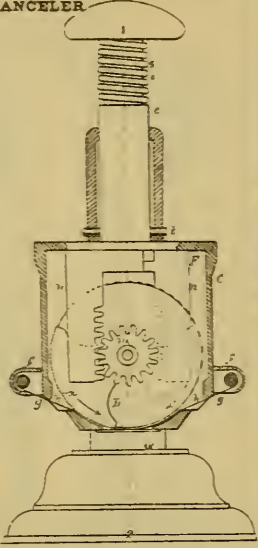
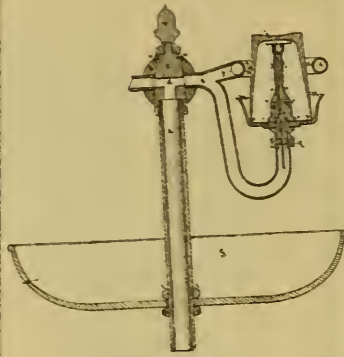
110,220. T. C. ELLISON
EXTENSION TABLE.

110,221. R. M. PILSON, FENCE POST.

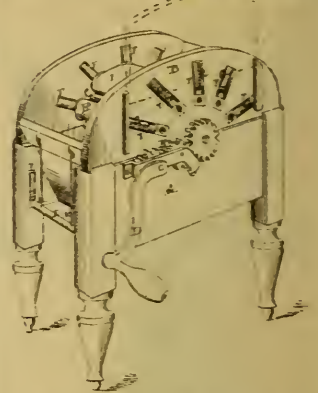
110,222. F. H. FISHER
HYDRAULIC MINING APPARATUS110,223. G. W. FISHER AND H. REID
CUT-OFF VALVE GEAR.

110,224. R. FURNAS HAY ELEVATOR

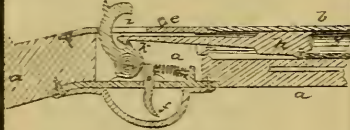
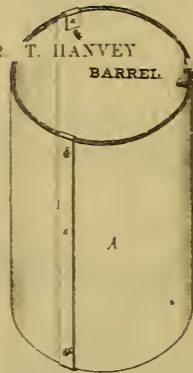
110,225. J. FURRER
WARPING MACHINE.110,226 A. GALE AND H. R. JOHNSON
HAME FASTENER.

110.227 J. GOLDSBOROUGH
STAMP CANCELER110.231 A. HALLOWELL
TUMBLER WASHER

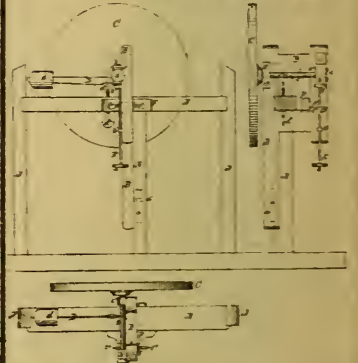
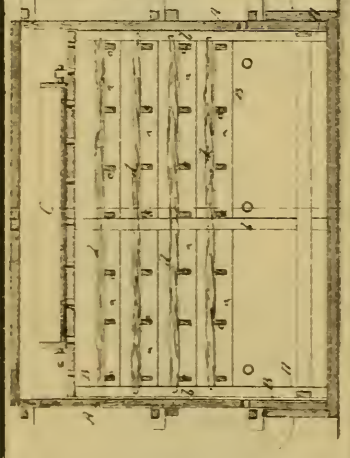
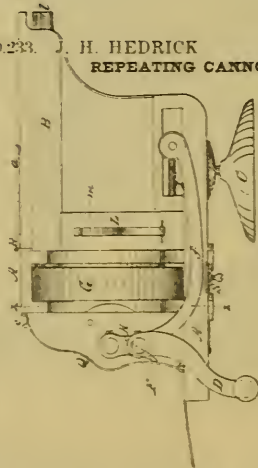
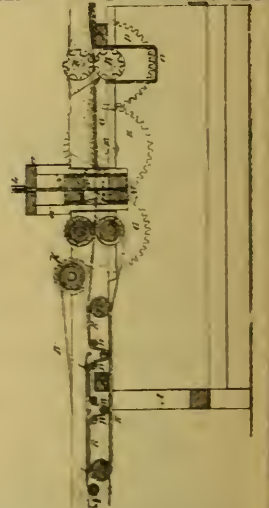
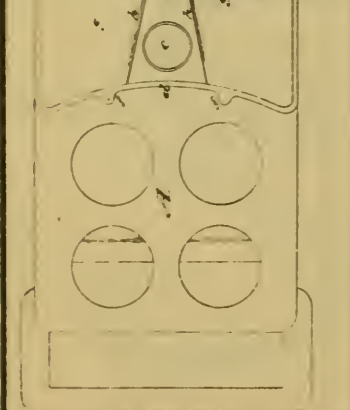
110.235A. HILTON WASHING MACHINE



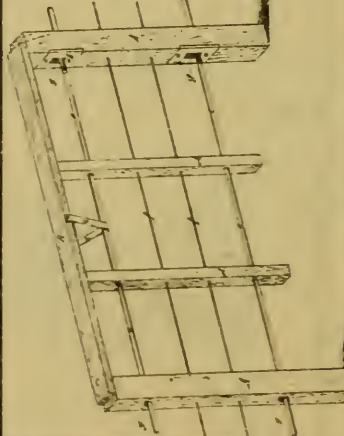
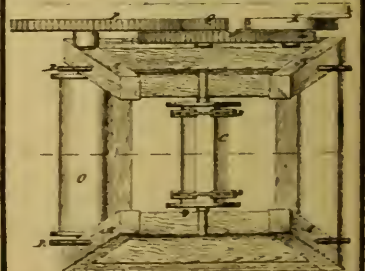
110.228 J. GOODALE TOY GUN.

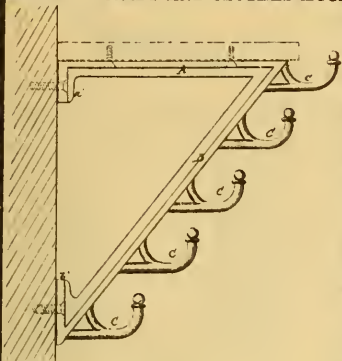
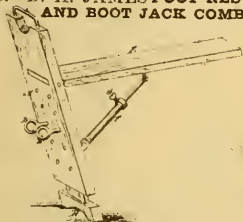
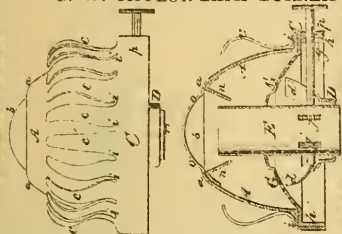
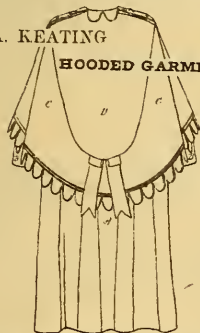
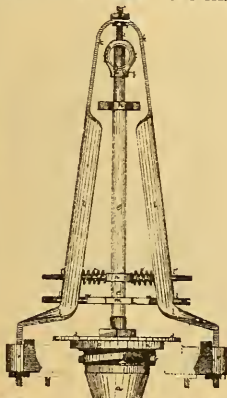
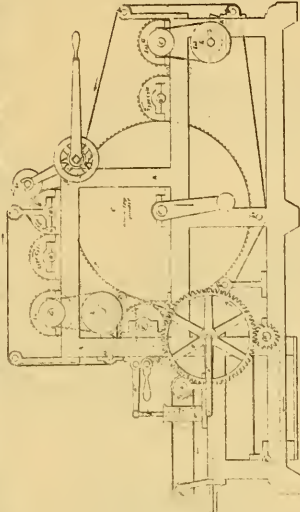
110.232 T. HANVEY
BARREL

110.236 J. R. HOFFMAN SAW MILL

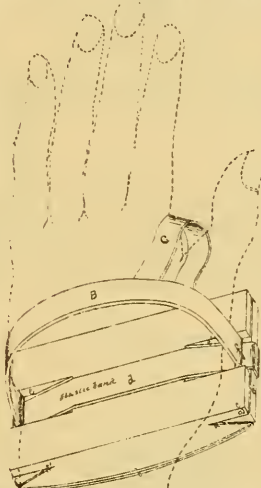
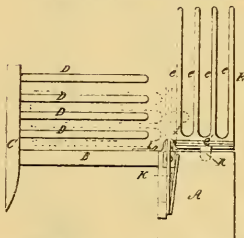
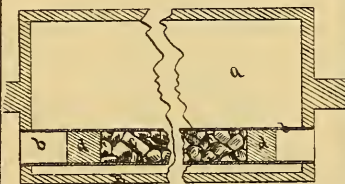
110.229 T. GRUNDMANN APPARATUS
FOR THE MANUFACTURE OF VINEGAR110.233 J. H. HEDRICK
REPEATING CANNON.110.237 G. E. HOPKINS AND
W. B. SHEDD MACHINE
FOR PREPARING FIBERS FROM
SISAL GRASS AND LIKE SUBSTANCES110.230 W. HAILES
COOKING STOVE.

110.234 W. D. HILLIS FENCE

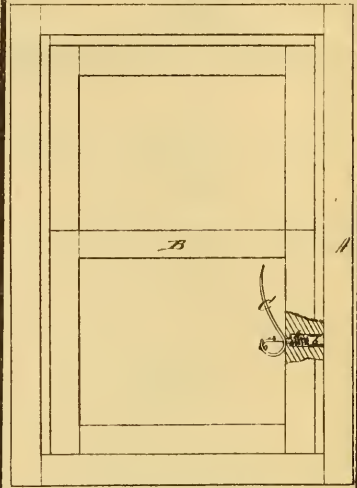
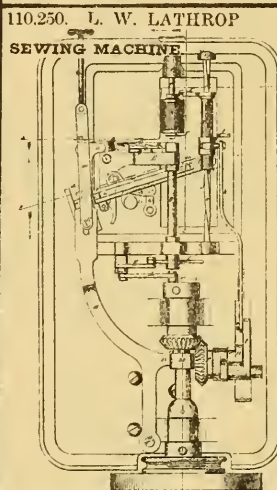
110.238 H. H. HUNT
HOISTING APPARATUS

110.239. H. E. HUTCHINSON
SHELF BRACKET AND CLOTHES HOOK110.240. D. H. JAMES FOOT REST
AND BOOT JACK COMBINED110.241. W. P. JENNEY AND
G. W. TAYLOR LAMP BURNER110.242. A. KEATING
HOODED GARMENT110.243. G. M. KEEFFER TOOL FOR
FORMING MOUTHS OF GLASS JARS.110.244. J. W. KELLBERG
PRINTING PRESS.

110.245A. B. KELLOGG BLOTTERING PAD

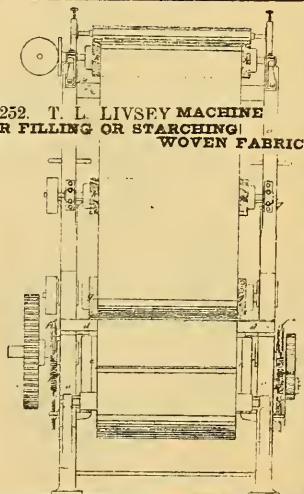
110.246. T. W. S. KIDD
HARVESTER DROPPER110.247. W. KITSON MODE OF
BALANCING CYLINDERS, PULLEYS, &c.

110.248. A. J. KRAMERSASH HOLDER

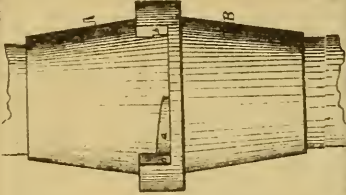
110.249. F. C. KRAUSE CLAY RETORT
FOR THE MANUFACTURE OF GAS.

110.251. J. M. LEONARD

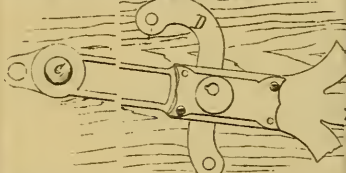
ADJUSTABLE FLOW JOINTER.

110.252. T. L. LIVSEY MACHINE
FOR FILLING OR STARCHING
WOVEN FABRICS

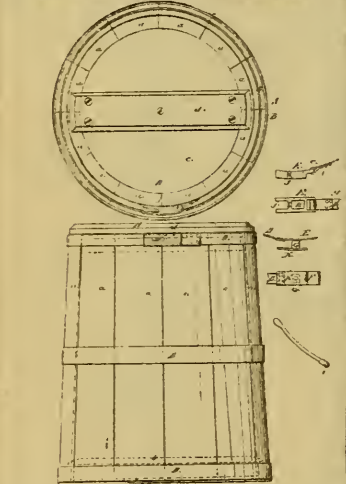
110,253. C. LOCHER ROSE COUPLING



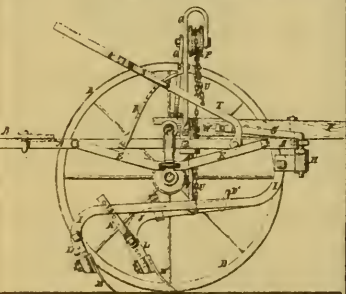
110,254. A. LÖFFELHOLZ AND A PRIER CAR SEAT LOCK



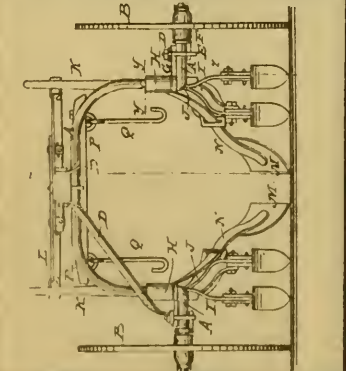
110,255. S. MACFERRAN TIGHTENING STRAP FOR BARRELS



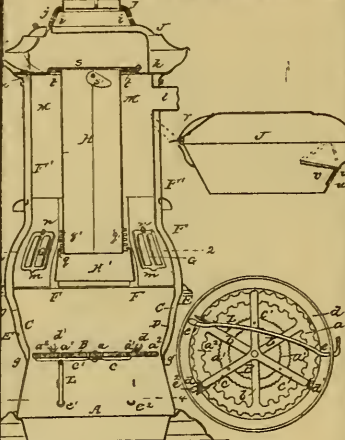
110,256. I. B. MAHON CULTIVATOR



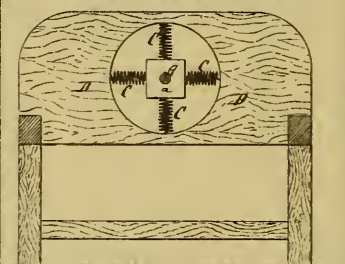
110,257. I. B. MAHON CULTIVATOR



110,258. H. C. MARCH. BASE BURNING STOVE.



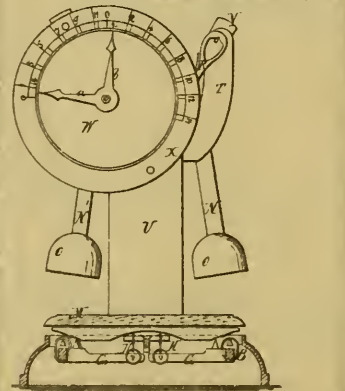
110,259. H. MARTINSON MODE OF BALANCING SHAFTS.



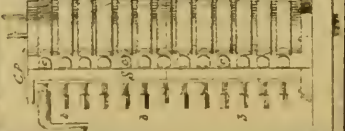
110,260. T. MAYOR. FLIER FOR SPINNING.



110,261. R. J. McKEONE PLATFORM WEIGHING SCALE.



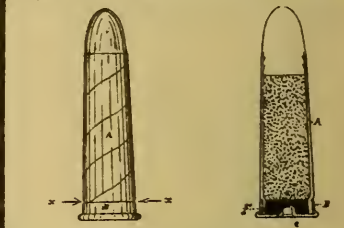
110,262. J. McMICHAEL MACHINE FOR BENDING WOOD



110,263 W. MILLER CLOTHES PIN.



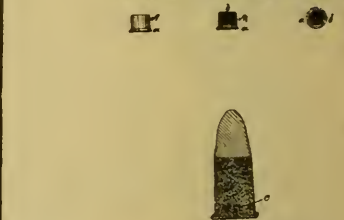
110,264. R. R. MOFFATT CARTRIDGE



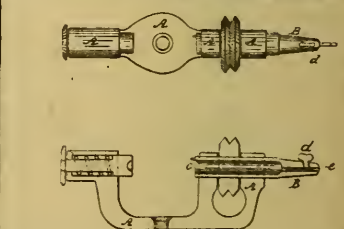
110,265. R. R. MOFFATT METALLIC CARTRIDGE



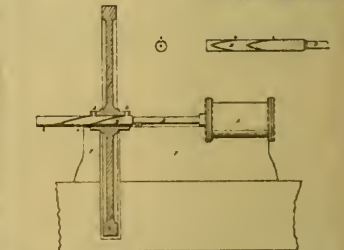
110,266. R. R. MOFFATT PERCUSSION PRIMER FOR CARTRIDGES



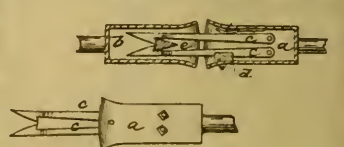
110,267. R. R. MOFFATT BOBBIN WINDING AND NEEDLE SHARPENING ATTACHMENT FOR SEWING MACHINES

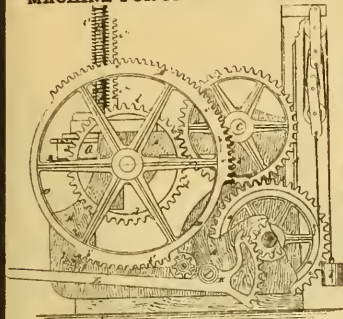


110,268. R. R. MOFFATT MODE OF APPLYING MOTIVE POWER TO MACHINERY

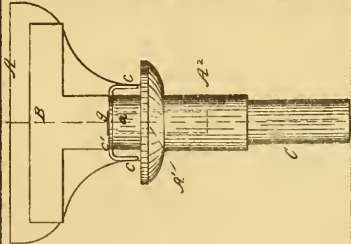


110,269. J. C. MORRIS CAR COUPLING

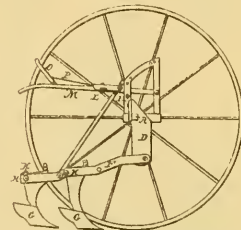
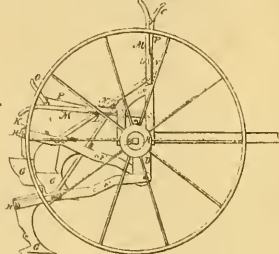


110.270. R. NEISCH
MACHINE FOR MAKING CIGARS.

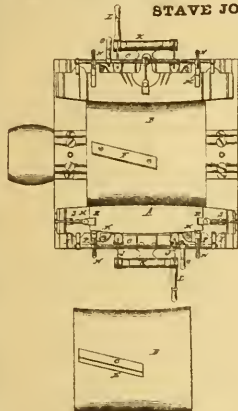
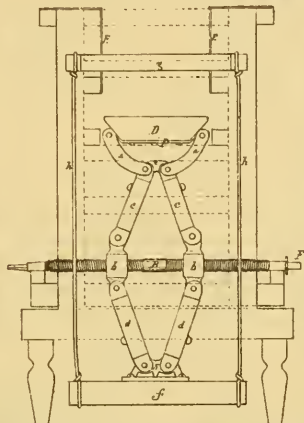
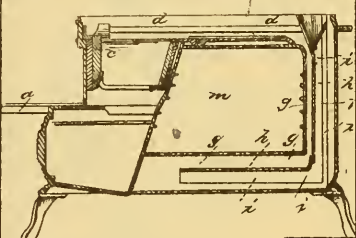
110.276. J. J. PALMER VAPOR BURNER



110.281. T. PEPPLER GANG FLOW.

110.271. S. NEWMAN, dec'd.
J. NEWMAN, administrator.

STAVE JOINTER

110.278. I. N. PATTEN AND
E. W. LONG COTTON PRESS.110.282. J. PRATT AND
J. H. WENTWORTH COOKING STOVE

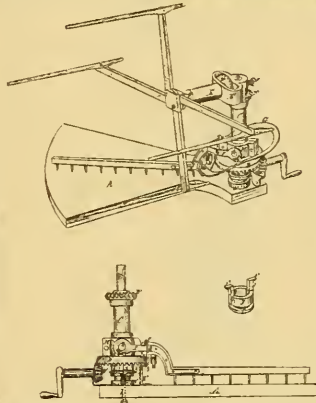
110.272. J. NEWTON MUSIC STAND



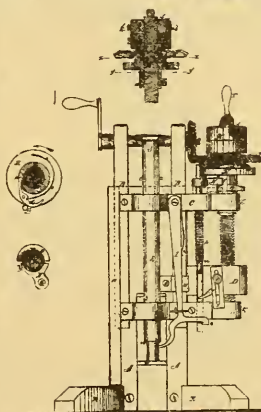
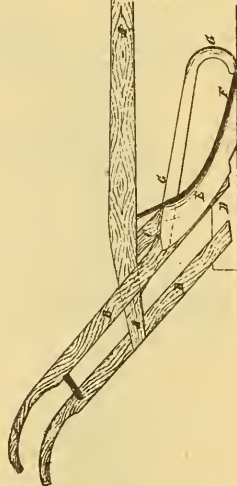
110.273. P. H. NILES CORSET CLASP AND SPRING



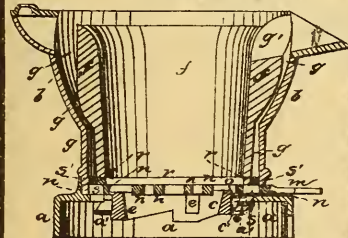
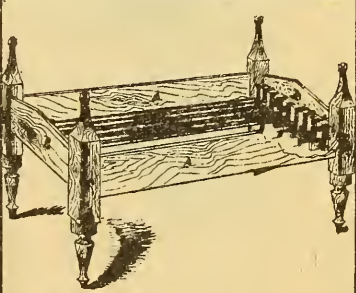
110.279. H. PEASE HARVESTER RAKE



110.280. C. PECK. ROCK DRILL.

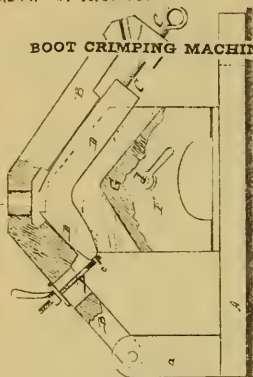
110.283. G. F. PYRIET
CUTTER FOR PLOWS

110.274. J. OLD FURNACE STOVE

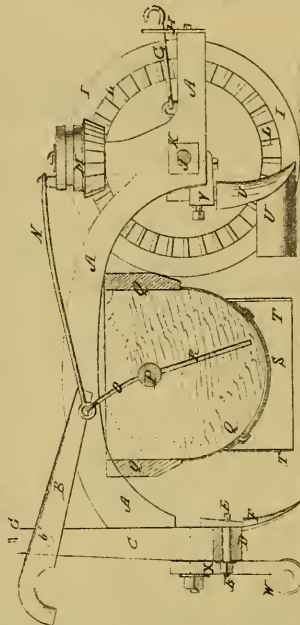
110.275. M. O'REILLY.
PREPARATION OF COD LIVER OIL.110.284. J. H. QUACKENBUSH
SPRING BED BOTTOM.

110,285. J. RAUSCH

BOOT CRIMPING MACHINE.

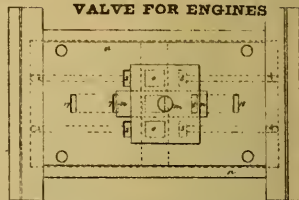


110,290. J. E. ROSS.

COMBINED COTTON PLANTER AND
GUANO DISTRIBUTER

110,294. W. C. SELDEN

VALVE FOR ENGINES

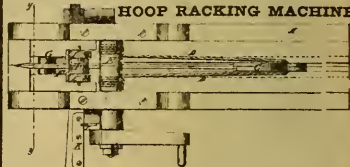


110,286 V. RHODESCHAMBER VESSEL.



110,295. R. M. SHANER

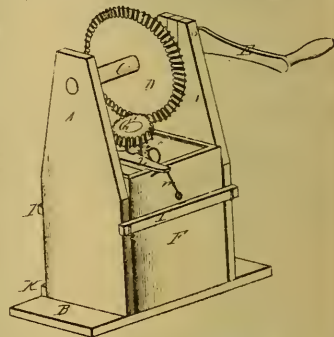
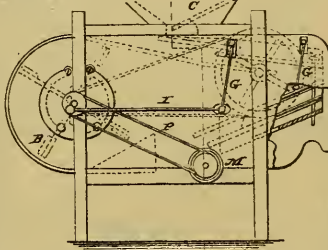
HOOP RACKING MACHINE



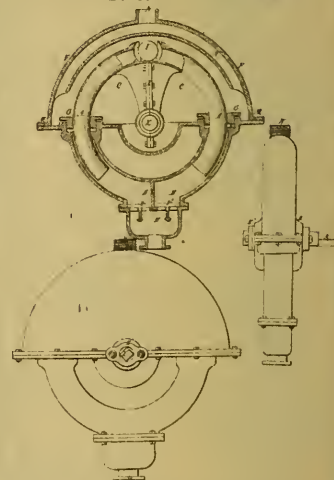
110,287. T. C. RICHARDS.

CONSTRUCTION OF ORNAMENTAL
HEADED PICTURE NAILS.

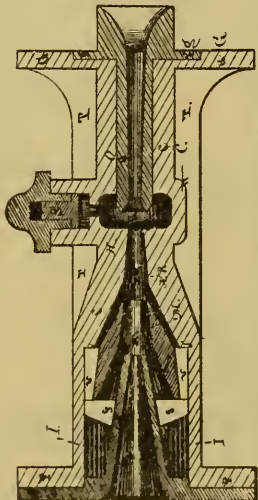
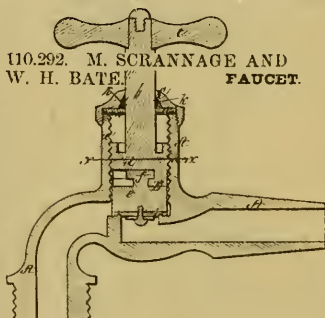
110,296. J. SHAPPEL L. CHURN.

110,288. A. A. RIDDICK. LINIMENT
FOR THE CURE OF RHEUMATISM.110,291. F. SAUER AND J. COERVER
FANNING MILL

110,297. N. P. SHELDON PUMP.

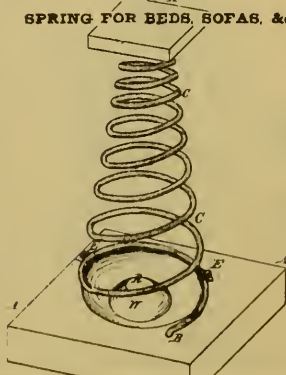


110,289. C. F. ROOT INJECTOR.

110,292. M. SCRANNAGE AND
W. H. BATEL FAUCET.

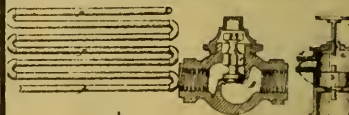
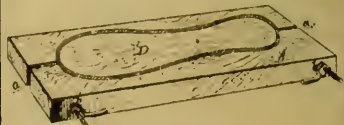
110,293. J. SEARS.

SPRING FOR BEDS, SOFAS, &c.

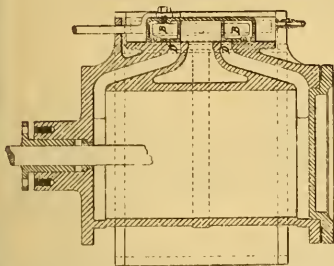


110,298. G. W. SHIELDS

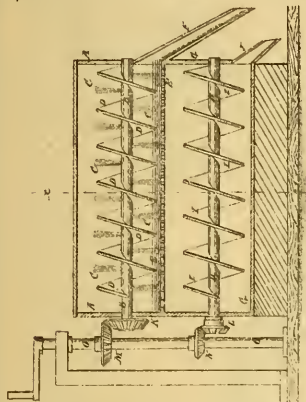
STEAM GENERATOR

110,299. W. G. SLATER PRESS
FOR FORMING SOLES FOR PAKES

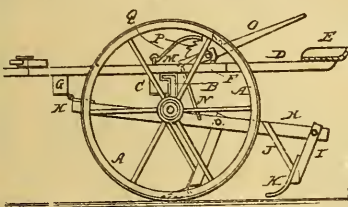
110,300. J. SMART. SLIDE VALVE.



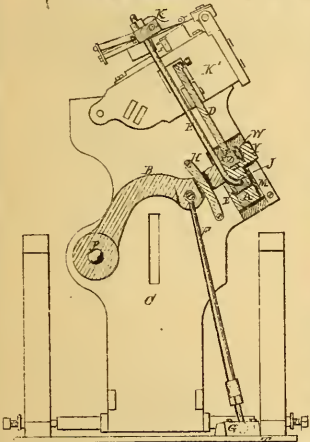
110,301. A. SMITH. GRAIN SCOURER.



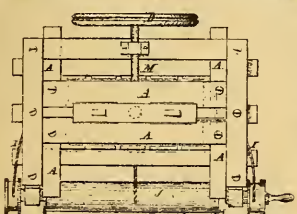
110,302. P. E. SMITH. CULTIVATOR.



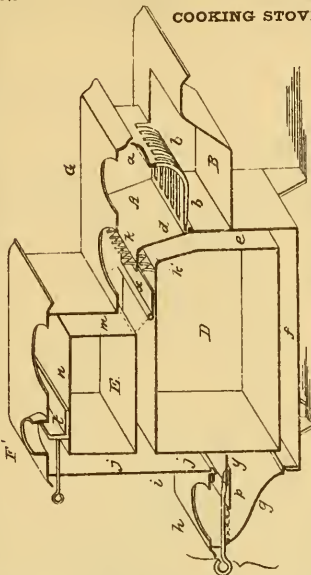
110,303. W. SPANG. TYPE CASTING MACHINE.



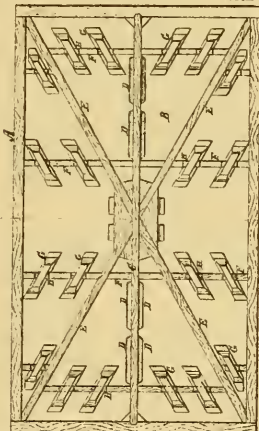
110,304. N. W. SPEERS COTTON PRESS.



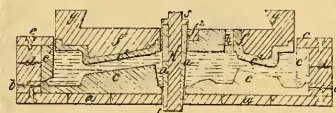
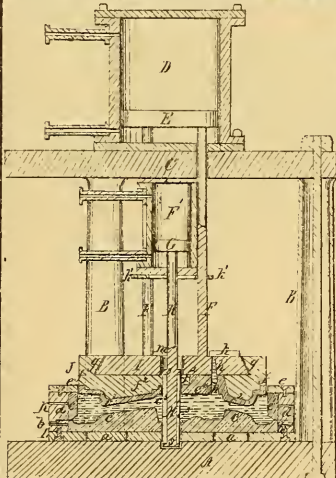
110,305. D. STUART AND L. BRIDGE. COOKING STOVE.



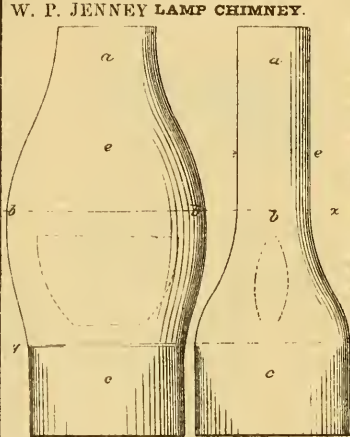
110,306. I. N. SWASEY. BILLIARD TABLE.



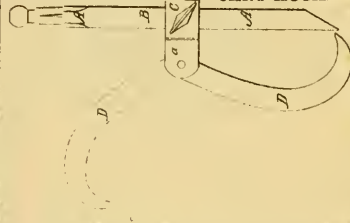
110,307. J. B. TARR. MOLD FOR CASTING UNDER PRESSURE.



110,308. G. W. TAYLOR AND W. P. JENNEY. LAMP CHIMNEY.



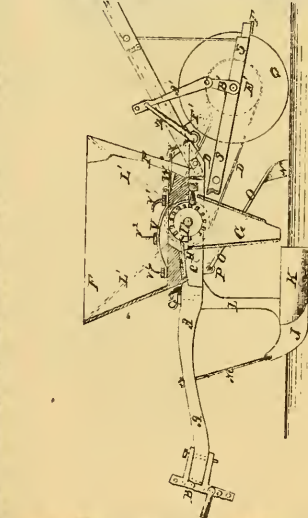
110,309. W. TETRO. CANT HOOK.



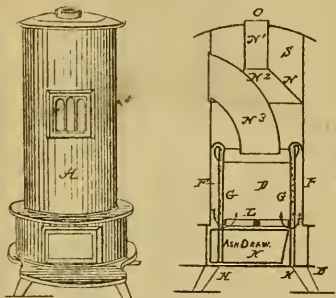
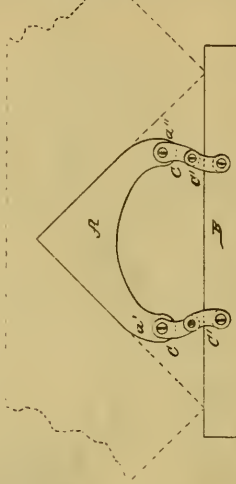
110,310. M. P. R. TILTON. PAD FOR CORSETS.



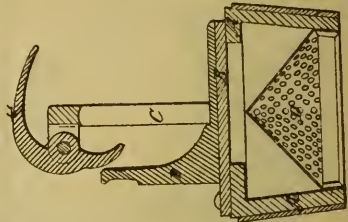
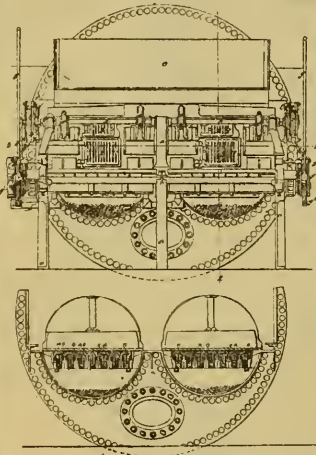
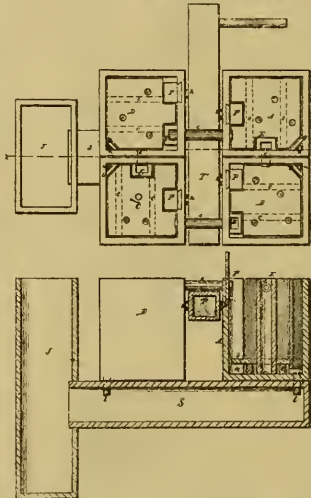
110,311. I. A. TOWERS. COTTON SEED AND CORN PLANTER.



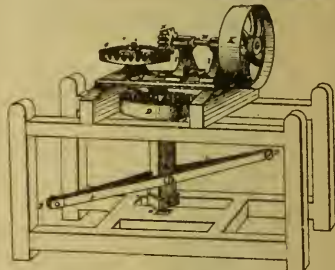
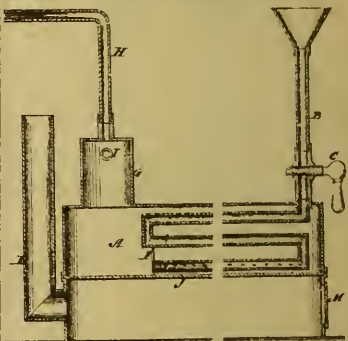
110312 A. TRAVER HEATING STOVE

110316. S. F. WESNER
ADJUSTABLE SQUARE.

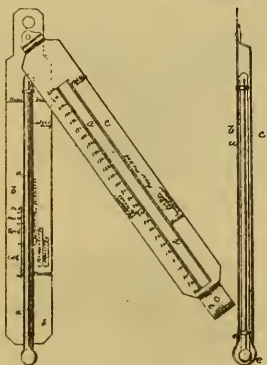
110319A. S. WHITEHOUSE PUMP BOX

110313 T. VICARS, SR., T. VICARS, JR
AND J. SMITH BOILER FURNACE.110317. W. T. H. WHARTON
LEACH FOR TANNING.

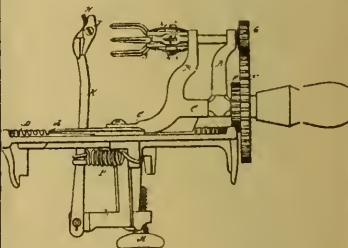
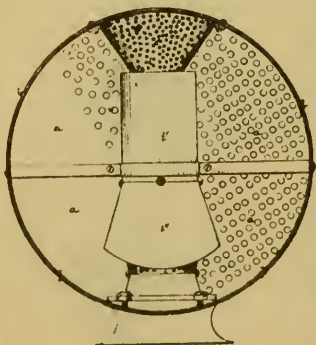
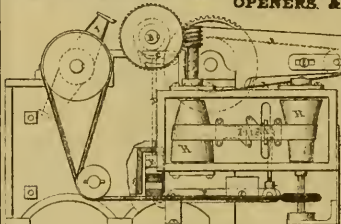
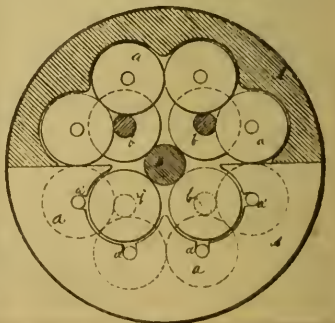
110320 J. W. WILCOX HORSE POWER

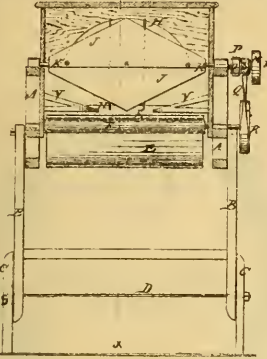
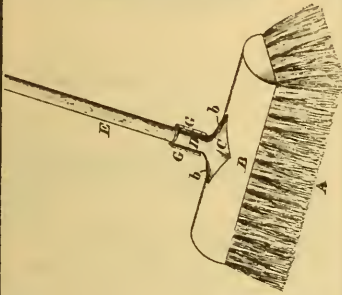
110321. M. WOOD
STEAM GENERATING APPARATUS

110314. J. D. WARD THERMOMETER.

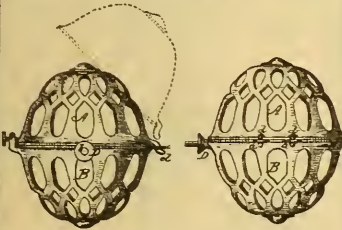
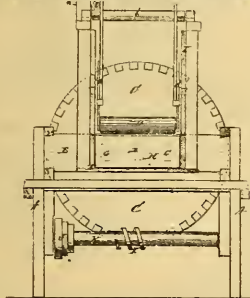
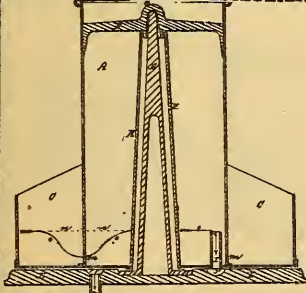
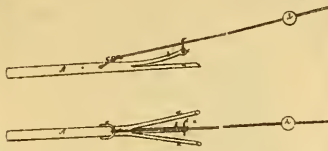


110322 L. S. WOODBURY FRUIT PARER

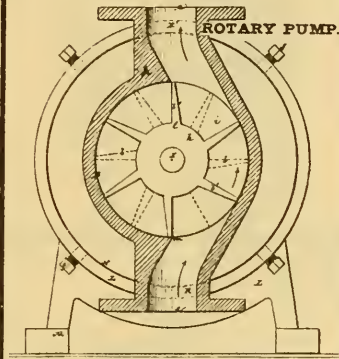
110315 J. WEIDMAN, J. MAJOR, AND
J. J. SAMPLE SPARK ARRESTER.110318. W. E. WHITEHEAD.
FEEDING MECHANISM FOR COTTON
OPENERS, &c.110323. P. W. YARRELL.
ANTI FRICTION JOURNAL.

110,324. W. H. H. YOUNG'S AUTOMATIC
BAND CUTTER, SPREADER AND FEEDER110,325. H. ACHEW
SOCKET FOR BROOM HANDLES.

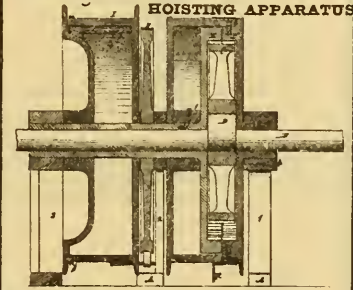
110,326. J. ADT. TWINE HOLDER.

110,327. I. H. ALBERTSON COMBINED
LINT ROOM AND COTTON PRESS110,328. F. ALLEN
REVOLVING REFRIGERATOR.110,329. N. P. AND N. E. ALLEN
GRAPNEL.

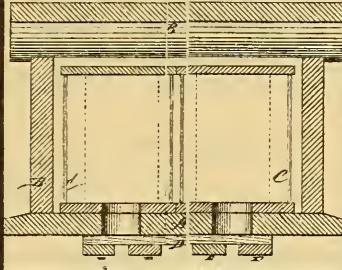
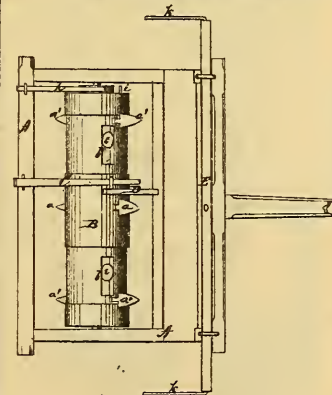
110,330. W. D. ANDREWS



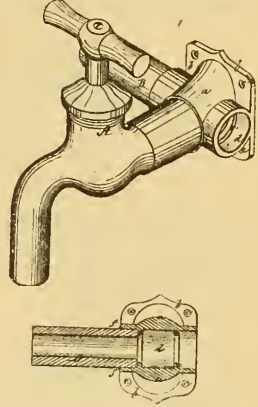
110,331. W. D. ANDREWS



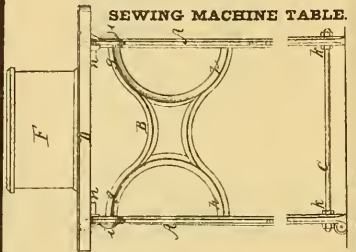
110,332. R. ARNOLD. BEE HIVE.

110,333. H. F. BAKER. COMBINED
LAND ROLLER AND MARKER.

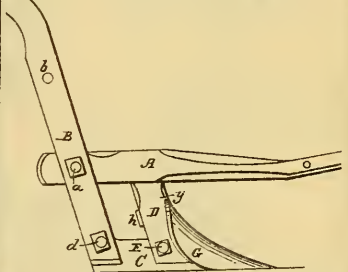
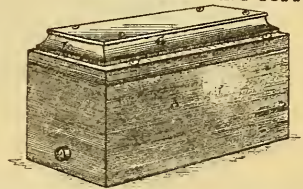
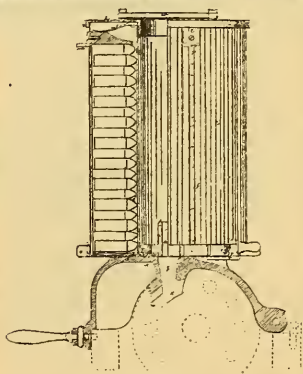
110,334. W. H. BATE. DRAUGHT COCK



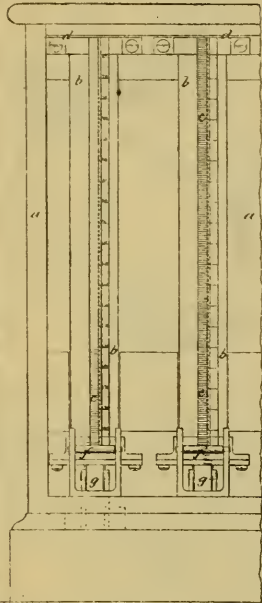
110,335. J. BENNOR.



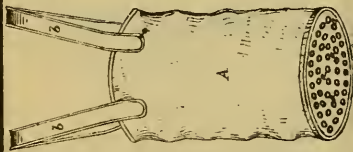
110,336. J. O. BILLING FLOW.

110,337. J. Y. BLACK
CORPSE PRESERVING COFFIN110,338. L. W. BROADWELL
FEEDER FOR REPEATING FIRE ARMS.

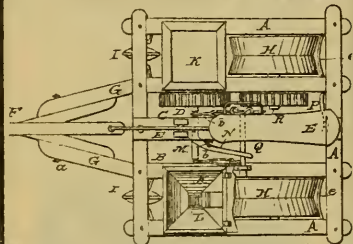
110.339. C. A. CALVERT.
FARE REGISTERING APPARATUS.



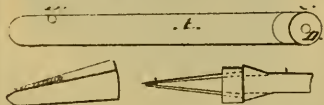
110.340. J. CARTER.
SAFETY CASE FOR FRUIT JARS.



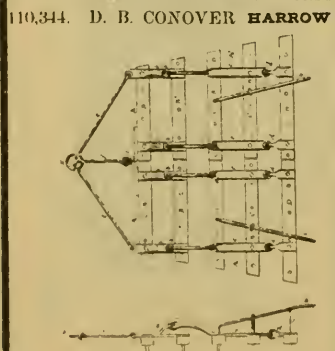
110.341. J. T. CARTER AND
M. B. WILLIAMSON CORN PLANTER



110.342. R. H. CHINN PEN.

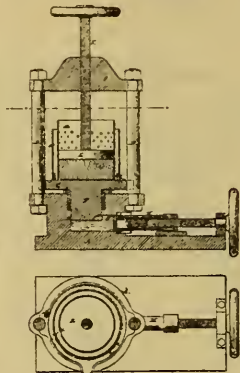


110.343. H. COLE ROOFING MATERIAL

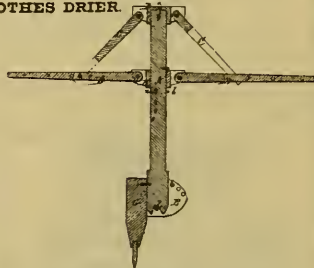


110.345. F. J. DELKER COMPOUND
FOR PURIFYING MINE WATER

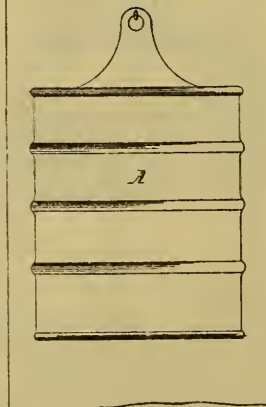
110.346. J. A. DESGOFFE
HYDRAULIC PRESS



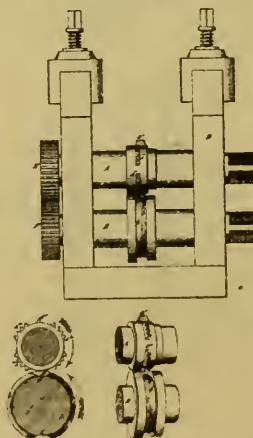
110.347. J. T. ELLIOTT
CLOTHES DRIER



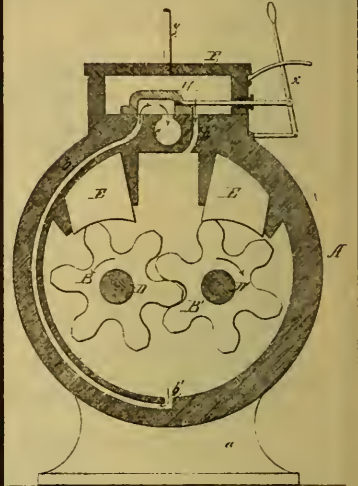
110.348. G. M. FILLMORE
MILK RECEPTACLE.



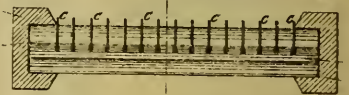
110.349. C. L. FITZHUGH ROLL
FOR FORMING HORSESHOE BLANKS.



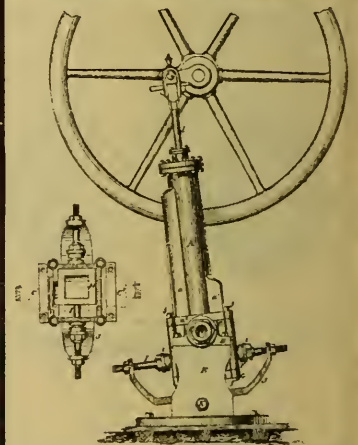
110.350. G. S. FOLLENSBEE
ROTARY STEAM ENGINE.



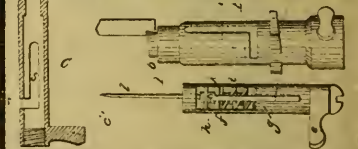
110.351. T. FOLLETT
GRAIN SIEVE AND OAT EXTRACTOR



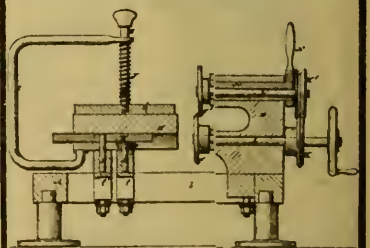
110.352. I. N. FORRESTER
OSCILLATING STEAM ENGINE.

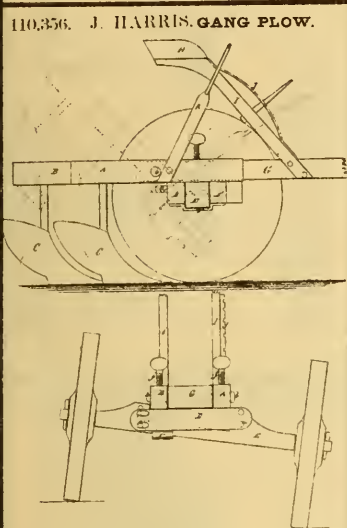


110.353. S. GERNGROSS
BREECH LOADING FIRE ARM.

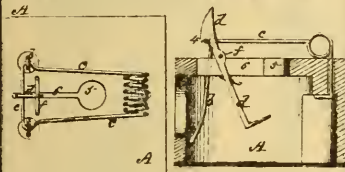


110.354. W. D. GRIMSHAW
MACHINE FOR CUTTING SHEET
METAL TO AN OVAL FORM



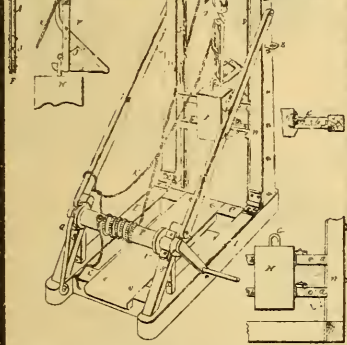
110,355. J. HAFENEGGER
EXPLOSIVE COMPOUND.

110,357. H. C. HART. MOUSE TRAP.

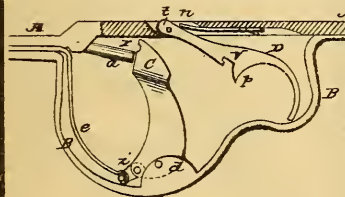
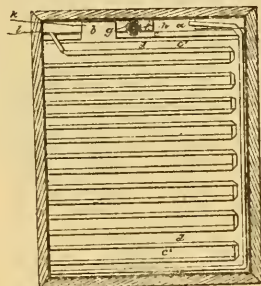
110,358. J. T. HAVILAND
HANDLE FOR CUTLERY, TOOLS, &c.

110,359. N. HAVERMAIL

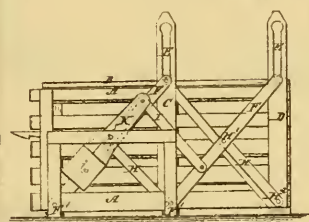
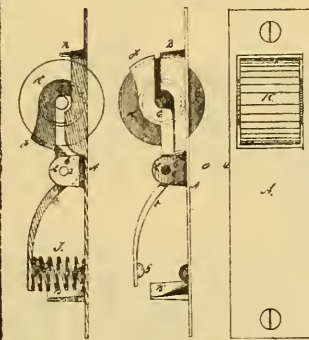
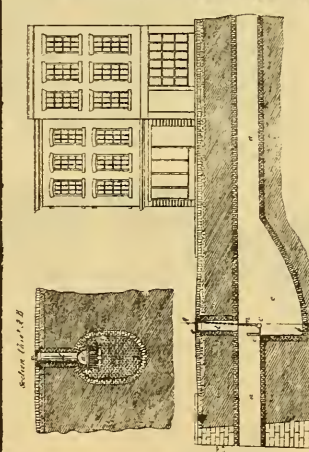
PILE AND POST DRIVER



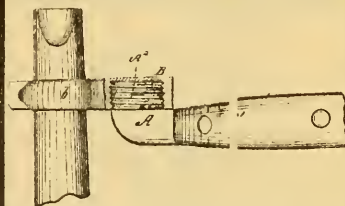
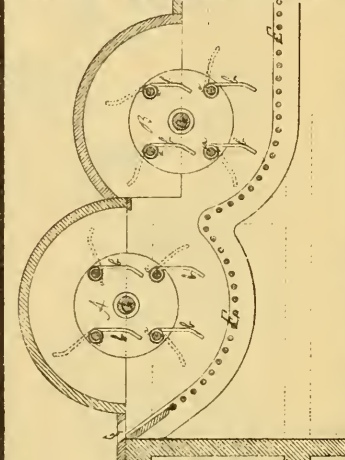
110,360. E. B. HENDEE. GUN LOCK.

110,361. D. R. P. HILL
LUBRICATING OIL.110,362E. HOLMES AND H. C. ROOME
ELECTRO MAGNETIC ENVELOPE FOR
SAFES, VAULTS, &c.

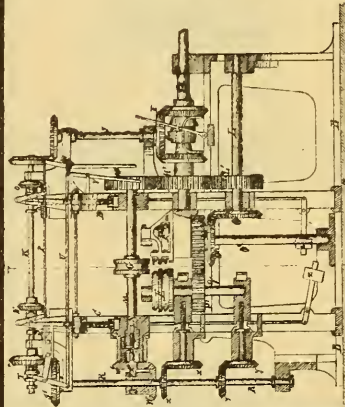
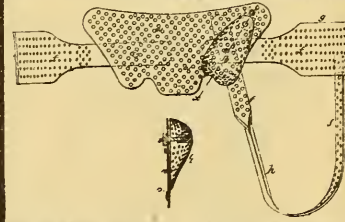
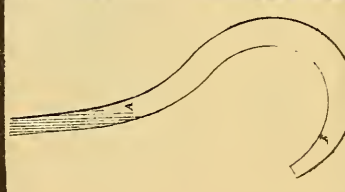
110,363. R. R. HOSKINS GATE.

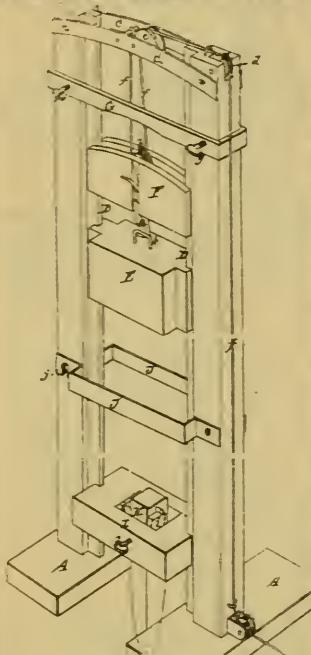
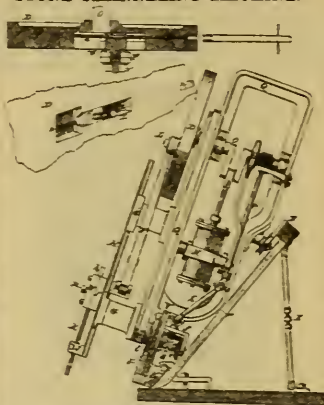
110,364. C. HOULKER.
PURIFYING OILS WHICH HAVE BEEN
USED IN LUBRICATING MACHINERY110,365. H. B. HUGUNIN
SASH SUPPORTER.110,366. J. B. HYDE.
UTILIZING SEWERAGE MATTERS

110,367 F. A. JEWETT THILL COUPLING

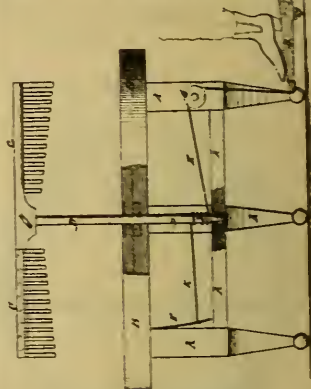
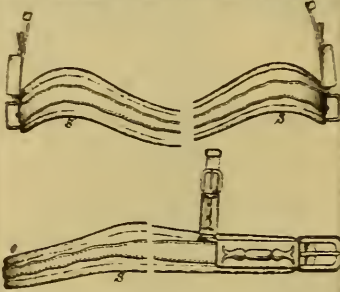
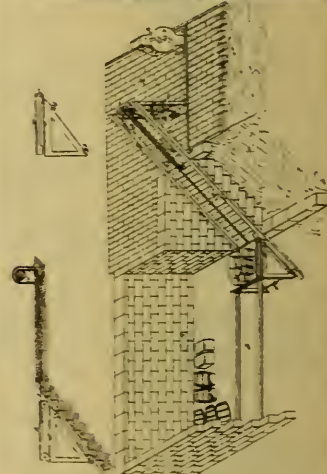
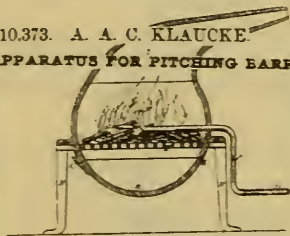
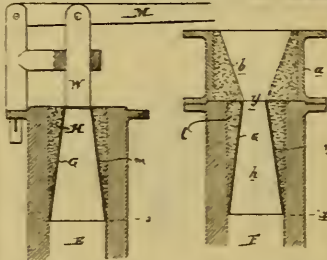
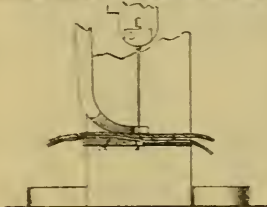
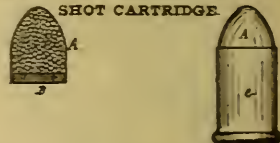
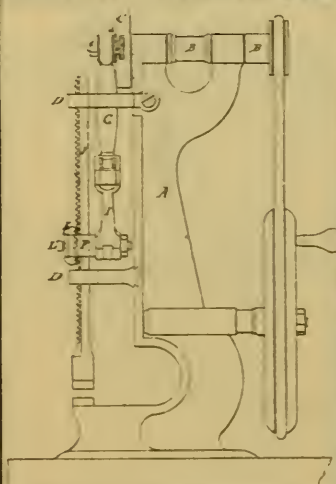
110,368. W. C. JILLSON AND
A. B. PALMER.
MACHINE FOR OPENING COTTON.

110,369. J. H. JONES ROLLING MILL.

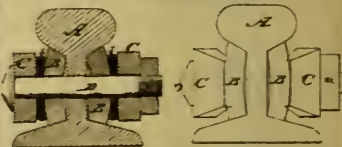
110,370. N. JONES
TRUSS AND SUPPORTER.110,371G. W. JOPE AND W. BUNTON
ROLLED BAR FOR PLOW BEAM BLANKS

110,372 J. M. KIRKPATRICK
MACHINE FOR MAKING POST HOLES.110,376. E. G. LAMSON
STONE CHANNELING MACHINE.

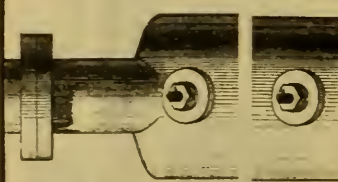
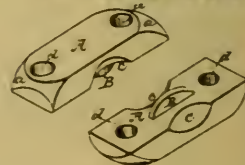
110,381. J. C. McEWAN TABLE FAN.

110,377. W. E. LEONARD
BREAST COLLAR FOR HORSES.110,382. W. McNAUGHTEN
ELEVATOR FOR MERCHANDISE.110,373. A. A. C. KLAUCKE
APPARATUS FOR PITCHING BARRELS.110,378 G. G. LOBDELL AND
W. STUART CASTING CHILLED ROLLS110,374. A. KOMP. BRAIDING
GUIDE FOR SEWING MACHINES.110,383. R. R. MOFFATT
SHOT CARTRIDGE.110,375. E. G. LAMSON
DRILLING AND CHANNELING MACHINE.

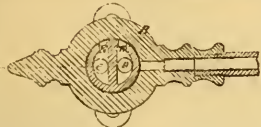
110,379 J. C. LUDLAM CARTRIDGE BOX

110,384. W. MOREHOUSE
RAILWAY RAIL JOINT110,385. F. B. MORSE METHOD OF
FORMING SHAFT IRONS FOR
CARRIAGES.

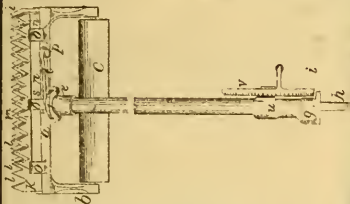
110,380. R. M. MARCHANT PUMP.

110,386. F. B. MORSE
CLIP BAR FOR CARRIAGES.

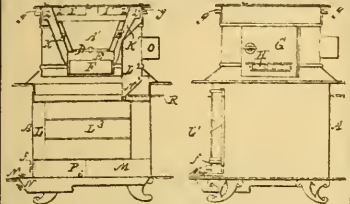
110,387. C. A. NEWTON BASIN COCK.



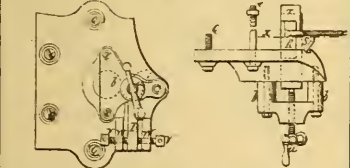
110,388. A. J. OHMERLAWN MOWER.



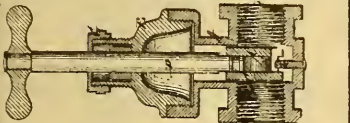
110,389 W. S. ORBETON COMBINED PARLOR AND COOKING STOVE.



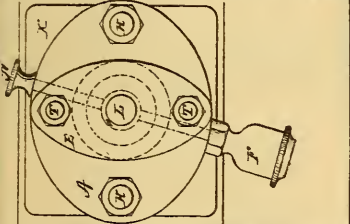
110,390. G. B. PATTEE SAW TOOTH SWAGE.



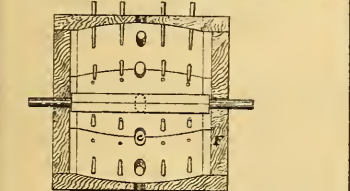
110,391. R. PILLING STOP VALVE.



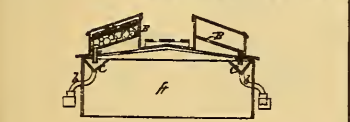
110,392 A. J. PRESCOTT STUFFING BOX.



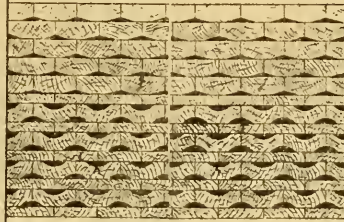
110,393. B. A. RAMSEY COTTON PLANTER.



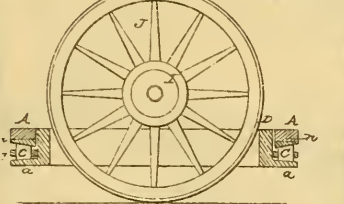
110,394. T. L. RANKIN REFRIGERATING CAR.



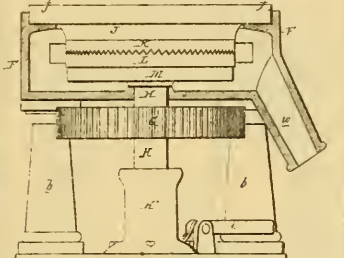
110,395. S. REEVE FOUNDATION FOR PAVEMENTS.



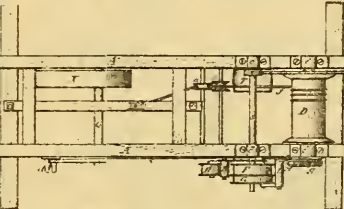
110,396. J. D. ROSS AND M. K. BURK VEHICLE.



110,397. J. H. RUSK GRINDING MILL.



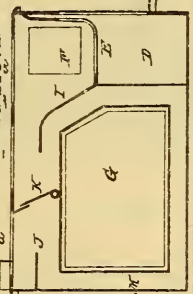
110,398. E. H. STEARNS MACHINE FOR TURNING LOGS.



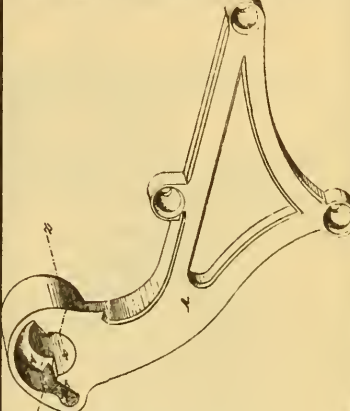
110,399. H. M. STOW PIPE AND TUBE FOR WATER AND GAS.



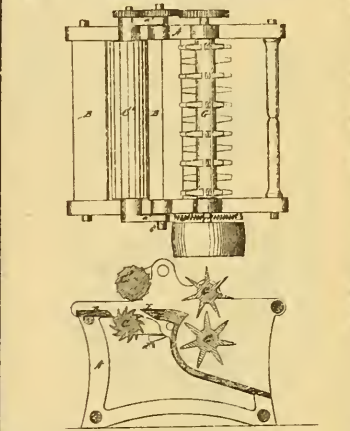
110,400. D. STUART AND L. BRIDGECOOKING STOVE.



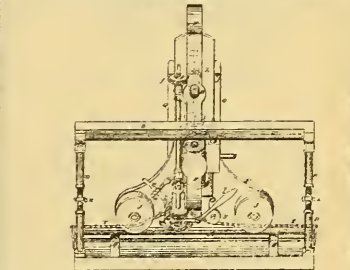
110,402. N. O. TIFFANY SEAT HINGE FOR SCHOOL DESKS AND SETTEES.



110,403. G. S. TILLINGHAUST AND J. W. BURDWIN BARK ROSSER AND BREAKER.



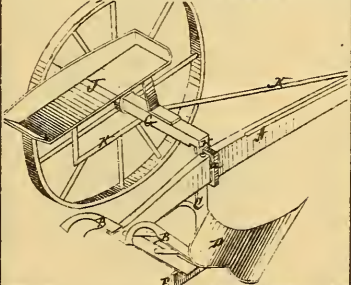
110,404. F. C. TREADWELL, JR. STONE CHANNELING MACHINE.



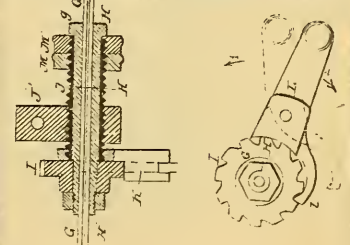
110,405. C. VAN HAAGEN. PORTABLE DRILLING TOOL.

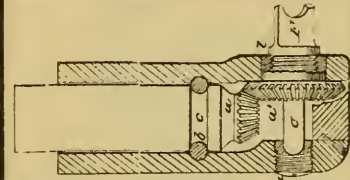
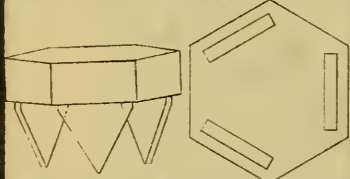
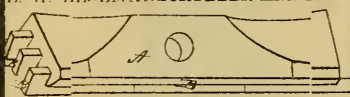
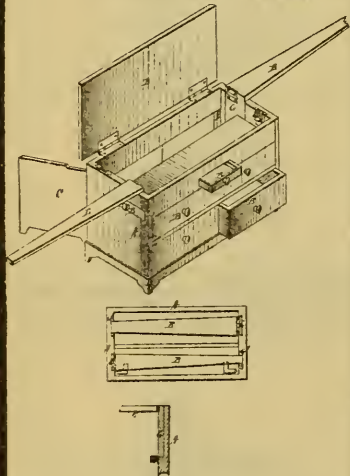


110,401 J. H. SUYDAM WHEEL FLOW.

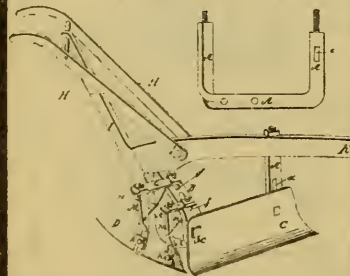


110,406. C. VAN HAAGEN GEAR CUTTING MACHINE.

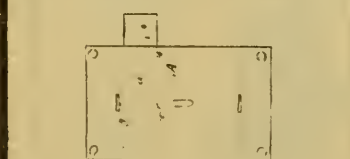


110.407. C. VAN HAAGEN
GROOVING TOOL.110.408. H. B. WALKER
SILVERING GLASS.110.409. W. P. WALKER AND
E. H. LESEMAN SCRUBBER AND MOP.110.410. M. WHITE
IRONING TABLE BUREAU.

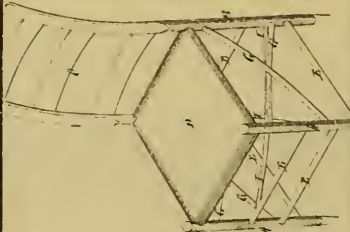
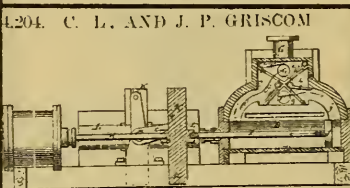
110.411. J. WILEY COTTON FLOW



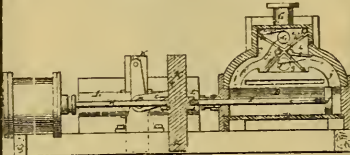
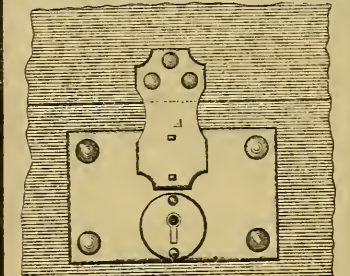
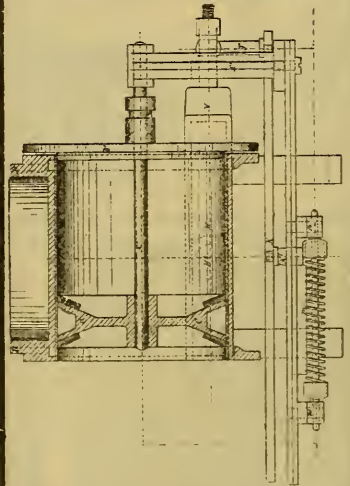
110.412. H. WILLARD LOCK.



110.413. J. C. ZIMMERMAN CHAIR.

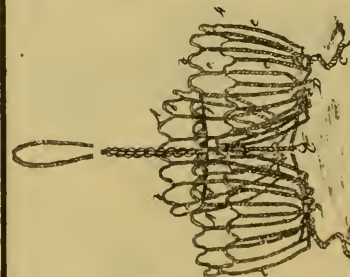
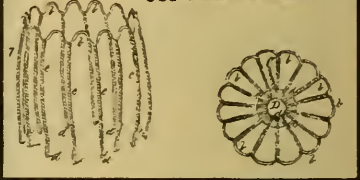
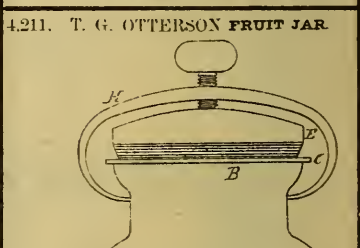
4.203. A. K. EATON MANUFACTURE
OF PAPER PULP FROM STRAW, &c.

4.204. C. L. AND J. P. GRISCOM

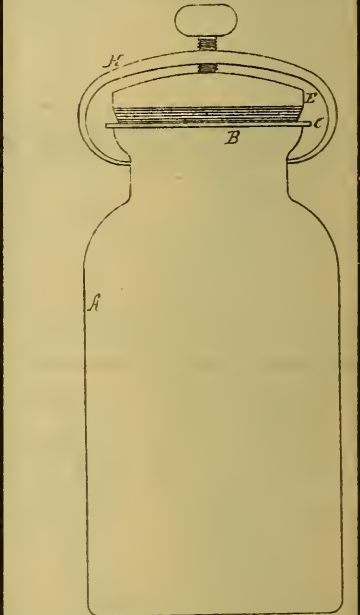
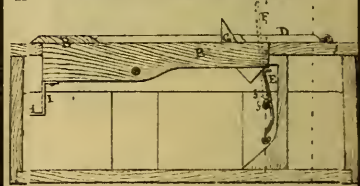
4.205. L. HILLEBRAND
HASP FOR TRUNK LOCKS.4.206. J. C. HORTON AND
S. K. HAWKINS METER.

4.207. E. INGRAHAM CLOCK CASE.

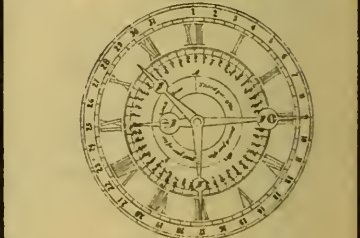
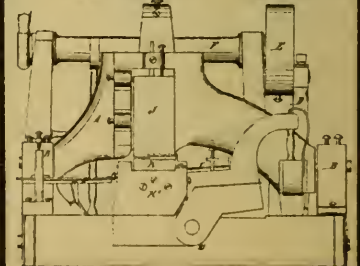
4.208. C. H. LATHAM TABLE CASTER.

4.209. C. H. LATHAM
CUP FOR CASTERS, &c.4.210. E. D. MURFEE MATERIAL
FOR BEARINGS AND PACKINGS

4.211. T. G. OTTERSON FRUIT JAR.

4.212. N. SWICKARD WAGON
AND CAR UNLOADING APPARATUS.

4.213. W. A. TERRY CALENDAR CLOCK.

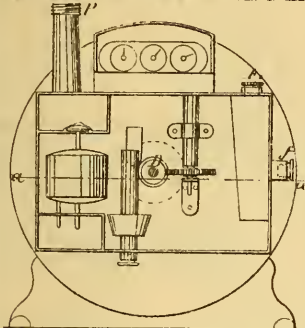
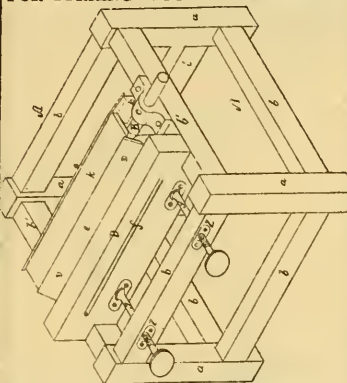
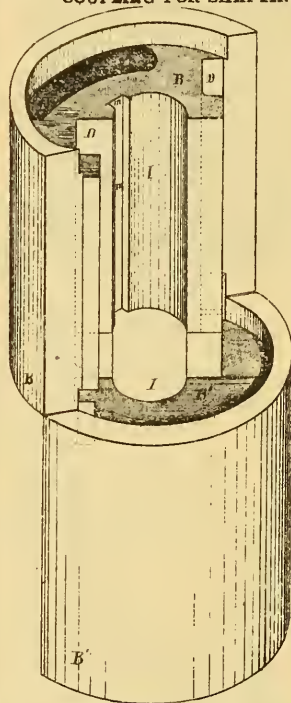
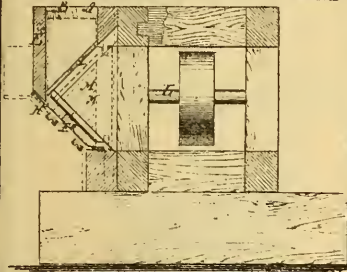
4.214. A. P. WINSLOW
MACHINE FOR CUTTING NAILS.

ILLUSTRATIONS OF PATENTS

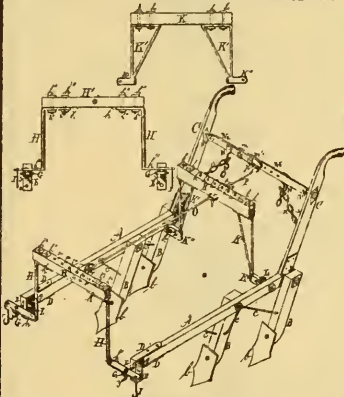
ISSUED FROM

THE UNITED STATES PATENT OFFICE

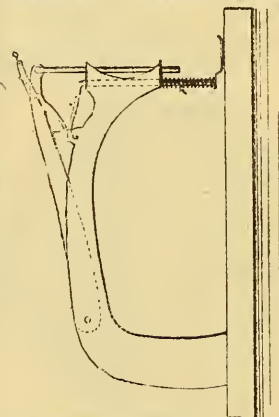
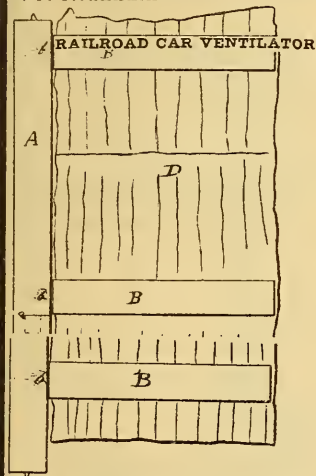
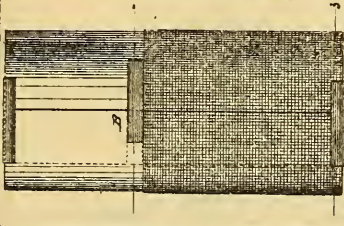
DECEMBER 27, 1870.

110,414. H. W. ADAMS
APPARATUS FOR SUPPLYING AIR110,418. E. H. ASHCROFT MACHINE
FOR BURRING WOOL ON THE SKIN110,422. C. BEAN
COUPLING FOR SHAFTING110,415. W. A. ALLEN
WOOD SPLITTING MACHINE

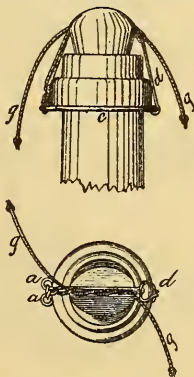
110,419. R. H. AVERY CULTIVATOR



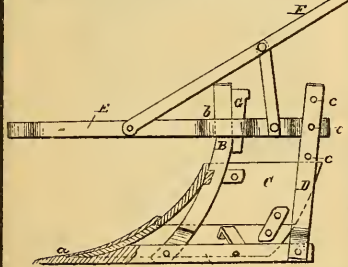
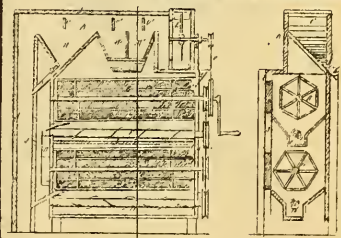
110,423. T. BECK MEDICAL BITTERS.

110,424. W. BENNETT TAKE UP
MECHANISM FOR SEWING MACHINES.110,416. G. B. ARMSTRONG AND
G. F. McLELLAN.110,420. G. A. BARRON
COFFEE POT STRAINER

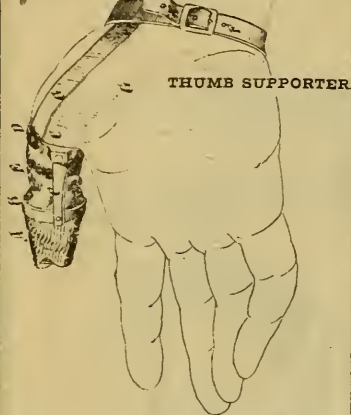
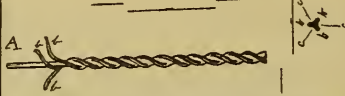
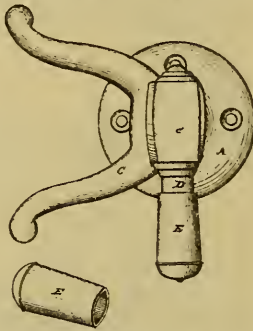
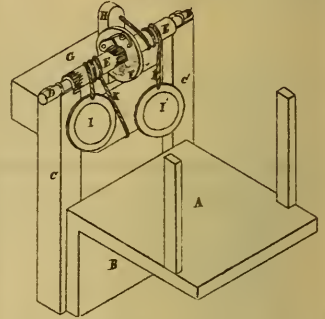
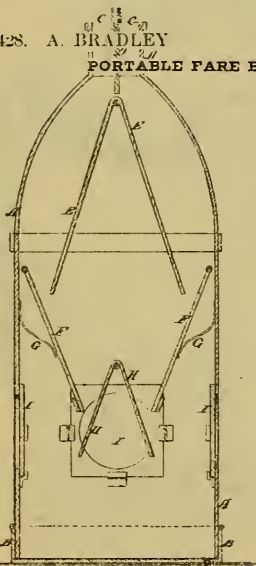
110,421B. BATES BOTTLE FASTENING.



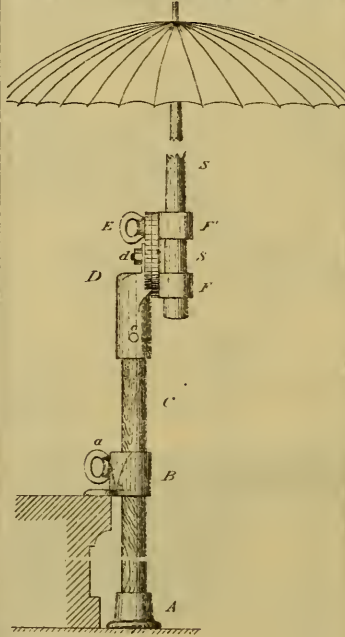
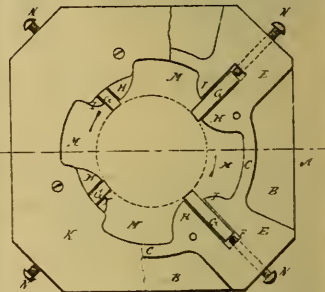
110,417. J. ARCHER PLOW.

110,425. L. G. BINKLEY
MIDDLINGS PURIFIER

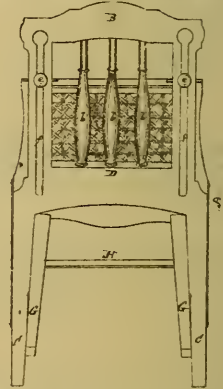
110.426. J. S. BORDEN

110.431. D. H. CAMPBELL AND
E. WOODWARD WIRE FOR MAKING
PEGS FOR BOOTS AND SHOES.110.432. W. M. CANFIELD
LUBRICATING COMPOUND FOR
STEAM AND OTHER PACKING110.433. W. S. CHATHAM
BOOT JACK AND DOOR BUFFER.110.436. W. R. CLOSE.
TIDAL MOTIVE POWER110.427. J. F. BOYNTON METHOD
OF PRODUCING ILLUMINATING GAS.110.428. A. BRADLEY
PORTABLE FARE BOX

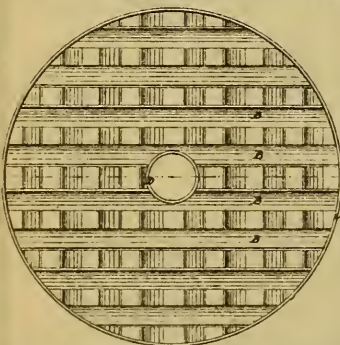
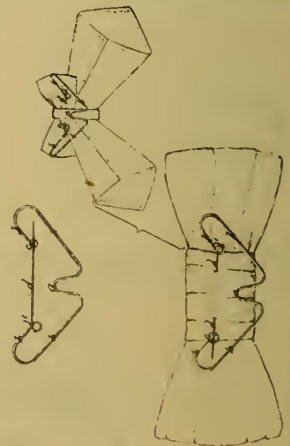
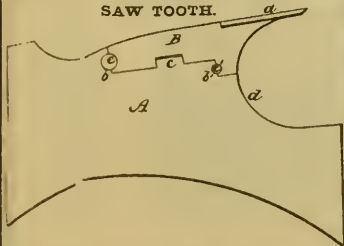
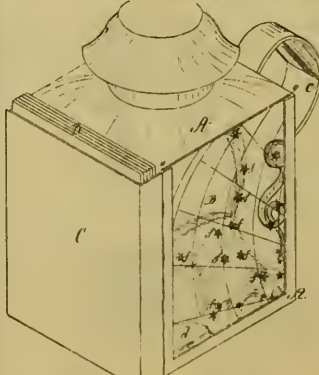
110.434A. CLARKE UMBRELLA HOLDER

110.437. W. T. COLE
DIE PLATE FOR SCREW CUTTING DIES

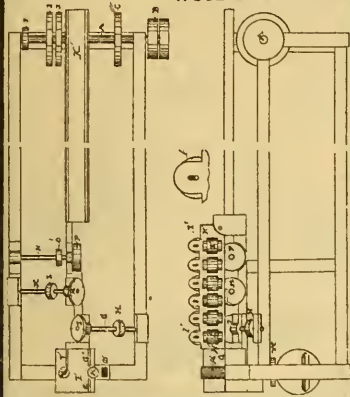
110.438. F. COLTON FOLDING CHAIR



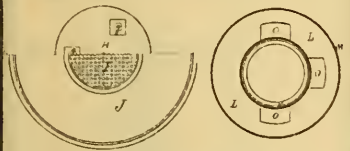
110.429. R. BROWN CHURN DASHER

110.439. W. J. COWING
FASTENING FOR NECKTIES.110.430. J. BYRD AND T. BYRD, JR.
SAW TOOTH.110.435. J. F. CLARKE.
ASTRONOMICAL LANTERN.

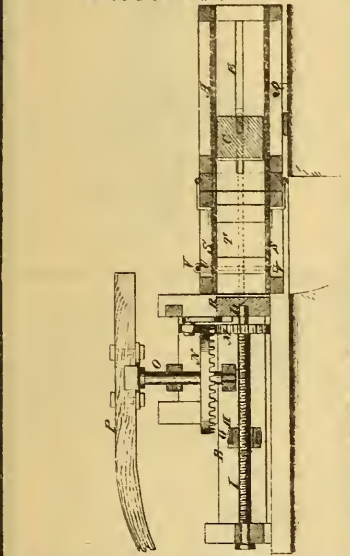
110,440. P. D. CUMMINGS. MACHINE
FOR GROOVING BLOCKS FOR
WOOD PAVEMENTS



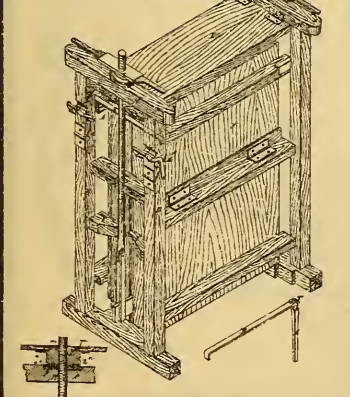
110,441. M. CUMMINS AND
H. ISREAL. SELF CLEANING
LOCOMOTIVE SMOKESTACK.



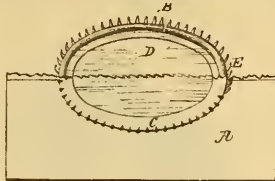
110,442. M. G. CUNNINGHAM
PRESS FOR HAY, COTTON, &c.



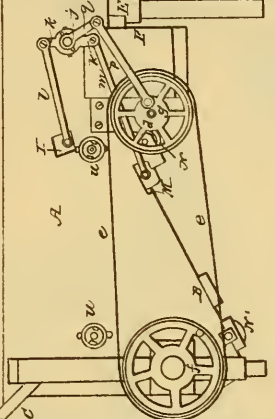
110,443. J. K. DAVIS
HAY AND COTTON PRESS.



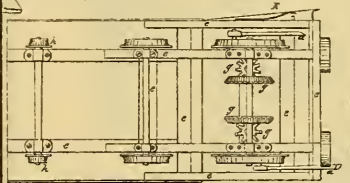
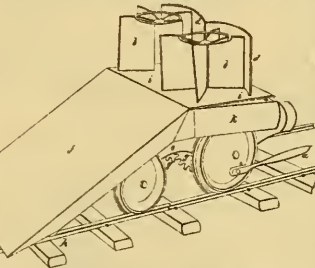
110,444. J. F. DOHAN
CARRIAGE WINDOW



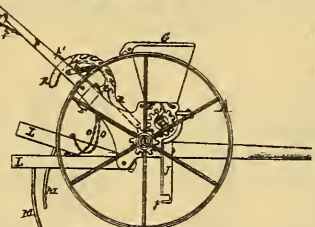
110,445. J. W. DONALDSON
GRAIN SEPARATOR.



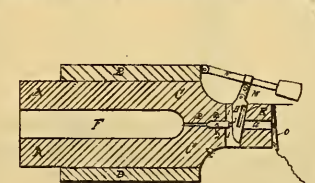
110,446. T. DOUGHERTY
SNOW PLOW FOR RAILWAYS.



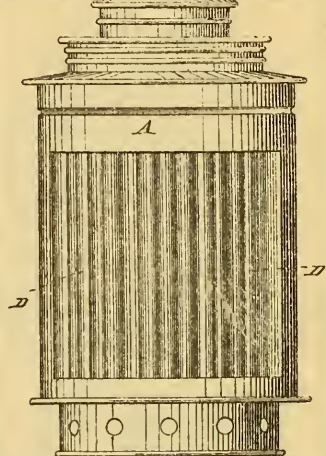
110,447. J. E. FARGO COMBINED
BROADCAST SEEDER AND CULTIVATOR



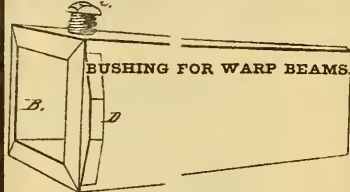
110,448. G. K. FARRINGTON DEVICE
FOR SIGHTING AND FIRING ORDNANCE



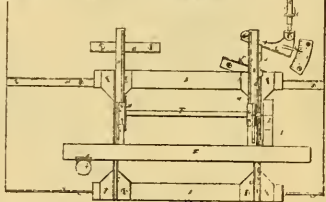
110,449. H. C. FELTHOUSEN
LENS OR GLASS FOR HEAD LIGHTS



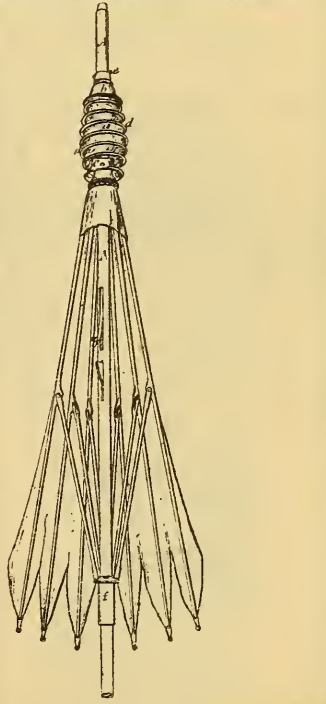
110,450. R. FERGUSON

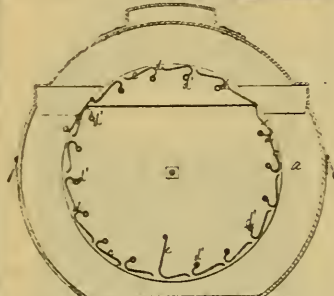
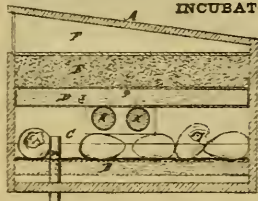


110,451. C. M. FLINT SAW MILL

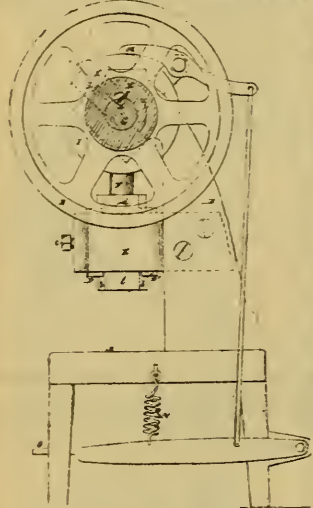


110,452. T. FOWLER
DRIP ATTACHMENT FOR UMBRELLAS

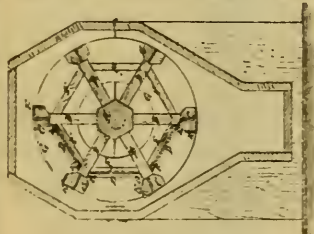


110.453. A. A. GARDNER.
WASHING MACHINE110.454. J. AND H. GRAVES
INCUBATOR.

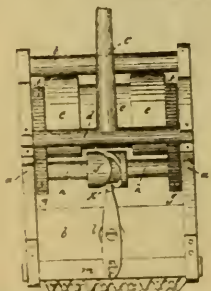
110.455 A. D. HAMLIN POWER PRESS



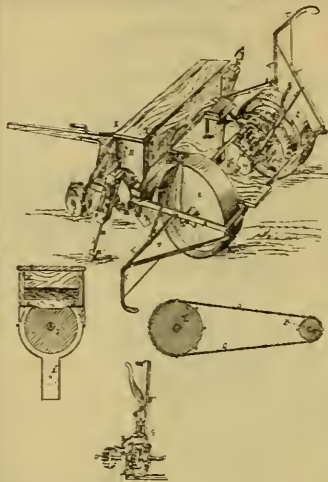
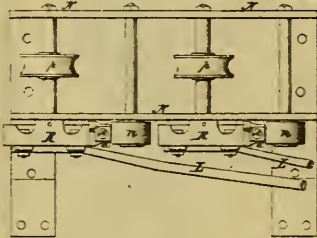
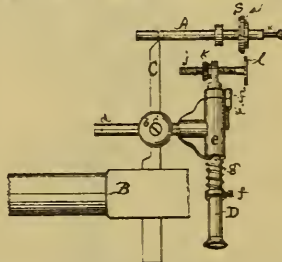
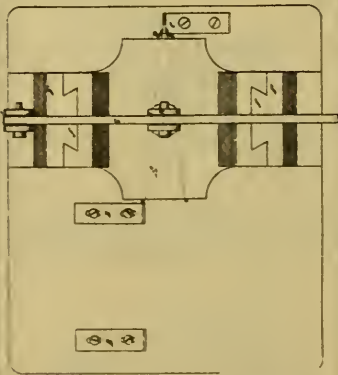
110.456. C. T. HANNA. FLOUR BOLT.



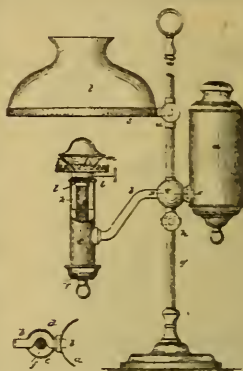
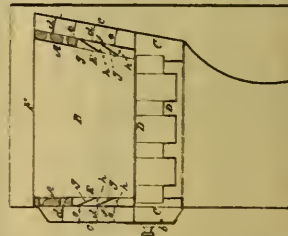
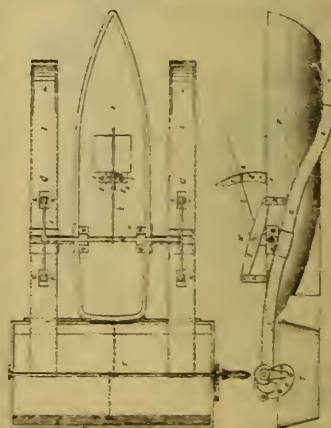
110.457. H. C. HART LAWN MOWER



110.458 C. A. HASKEL CORN PLANTER

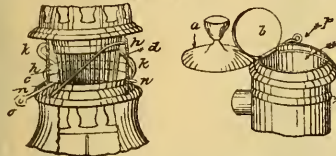
110.459. G. HEATH
CANAL LOCK MECHANISM110.460. H. F. HENDERSON AND
J. E. LADD
GAGE FOR TURNING CLOCK WORKS.110.461. J. HESSING
NON-CONDUCTING COMPOUND FOR
COATING STEAM BOILERS110.462. L. N. HEWES MACHINE FOR
CUTTING THE ENDS OF HOOPS.110.463 J. A. HEWETT COMPOUND AND
PROCESS OF REMOVING
INCORUSTATIONS OF LIME FROM
STEAMBOILERS, METALS, &c.

110.464. C. F. A. HINRICHS LAMP.

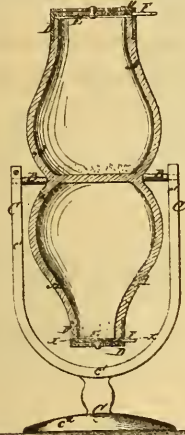
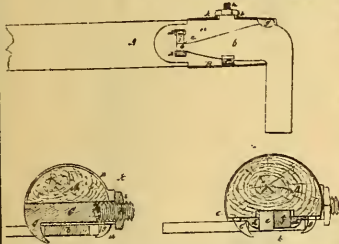
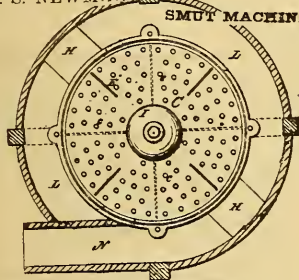
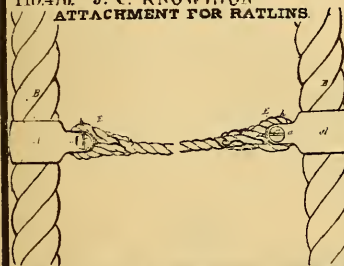
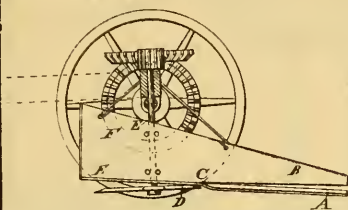
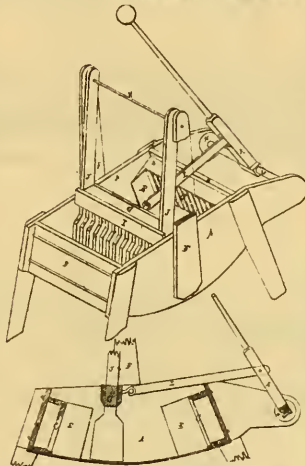
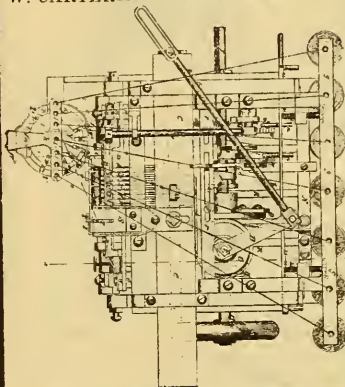
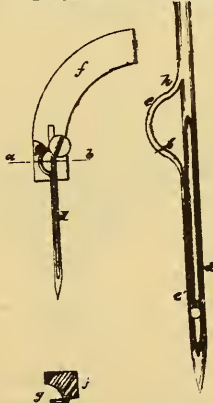
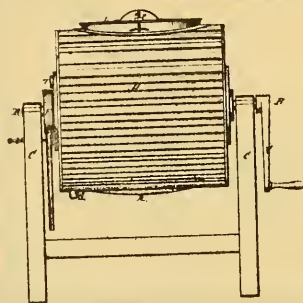
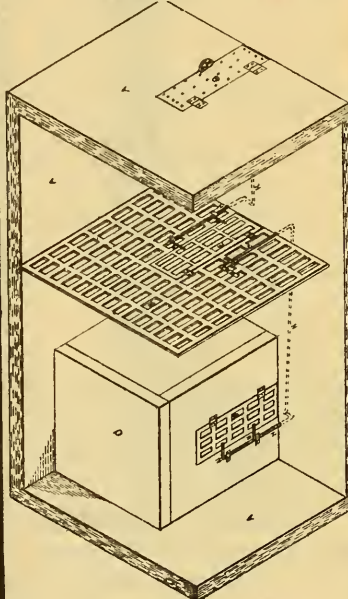
110.465. F. A. HOLCOMB
MANUFACTURE OF LEATHER110.466. J. L. HORNIG
PROPULSION OF CANAL BOATS.110.467. M. L. HORTON
FIRE BOX FOR STOVES AND RANGES110.468. G. HOWELL
DEVICE FOR FILLING LOWLANDS

110.469. E. T. JARROLD REFINING
OIL FROM COTTON WASTE. &c.110.470. N. JENKINS MEDICAL COMPOUND
FOR CURE OF RHEUMATISM

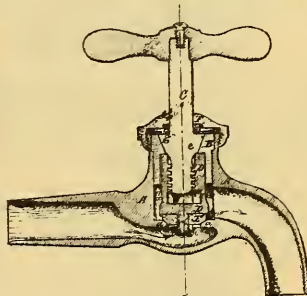
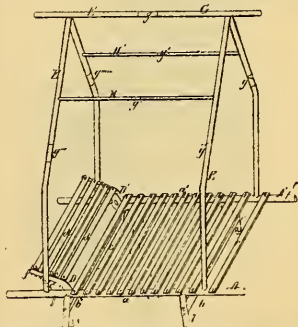
110.471. CANCELED

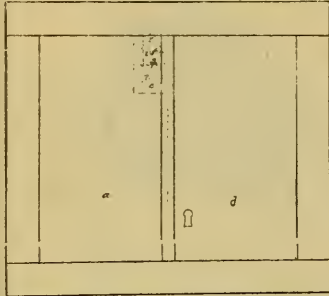
110.472. W. KAISER
BASE BURNING STOVE.

110.473. E. S. KENNEDY SPICE BOX.

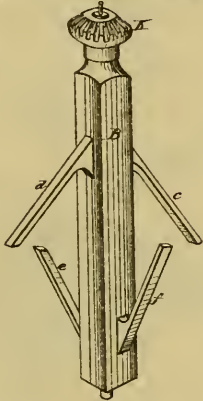
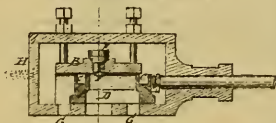
110.474. S. U. KING
SCYTHE FASTENING.110.475. W. H. KITE AND
G. S. NEWMAN
SMUT MACHINE.110.476. J. C. KNOWLTON
ATTACHMENT FOR RATLINS110.477. H. LAWRENCE
VINE AND WEED CUTTER110.478. B. C. LAWSON
WASHING MACHINE.110.479. J. AND M. LEE AND
W. CARTER KNITTING MACHINE.110.480. G. A. LLOYD
NEEDLE AND ITS CARRYING ARM
FOR SEWING MACHINES110.481. L. MARKS
COMPOUND FOR CLEANING CARPETS.110.482. M. S. MARSHALL
WASHING MACHINE110.483. F. MAY
CONSTRUCTION OF PRISONS

110.484 P. A. MAYOR WATER FAUCET

110.485. A. D. MCCOY
CAMP BEDSTEAD

110,486. A. McRAY
AUTOMATIC DOOR BOLT.

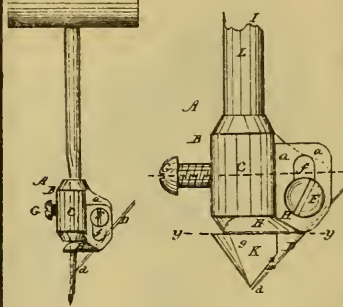
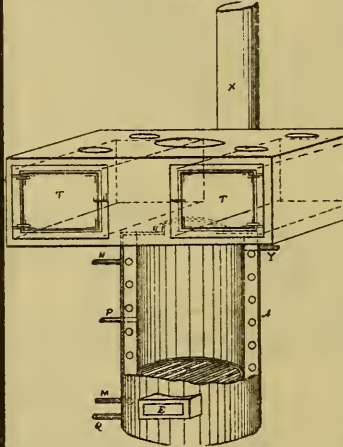
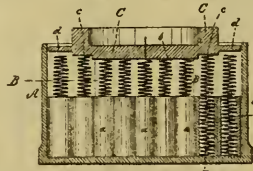
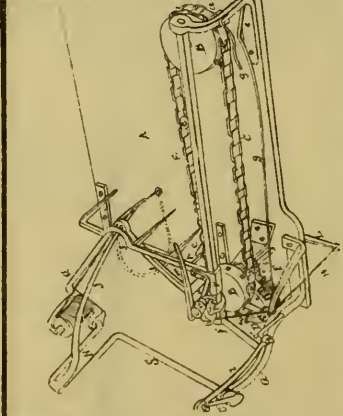
110,487. B. MELLORCHURN DASHER

110,488. W. MOLLOR
FILTER TANK AND OTHER VESSELS
USED IN REFINING SIRUPS, SUGAR, &c110,489. J. MYERS, JR.
TREATING BESSEMER STEEL110,490. J. NESBITT
BALANCED SLIDE VALVE.

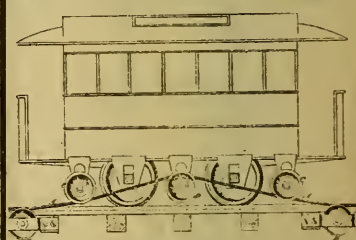
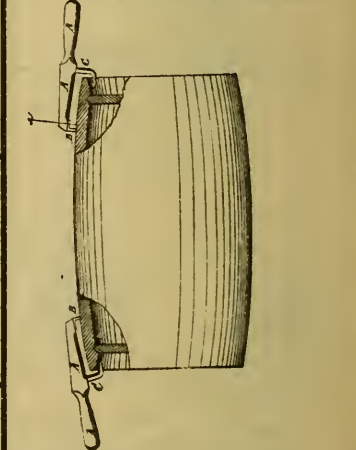
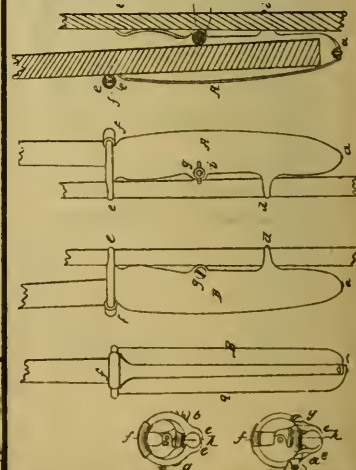
110,491. W. PARK KEY FOR LOCKS

110,492. LA FAYETTE PARKER.
GRAIN BINDER.

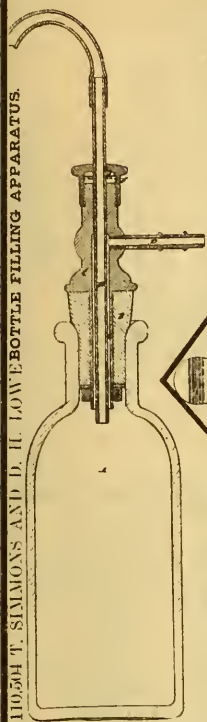
110,493. SUSPENDED

110,494. M. M. PETTES.
COUNTERSINK.110,495. G. H. POND
CLEANING WOOL, COTTON, &c.110,496. G. H. POND
GAS RETORT AND HEATING FURNACE110,497. A. POTTS
RAILWAY CAR SPRING.110,498. F. W. RANDALL.
GRAIN BINDER

110,499. J. L. RANDOLPH LOCK NUT.

110,500. T. C. RICHARDS
NAIL FOR PICTURES.110,501. J. ROY
PROPELLING APPARATUS FOR CARS.110,502. M. S. SCHOFIELD
HANDLE FOR BARRELS, &c110,503. F. W. SCOTT
WHIP HOLDER FOR CARRIAGES.

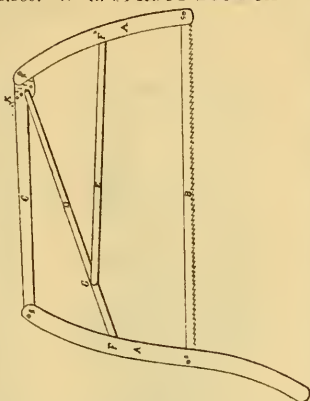
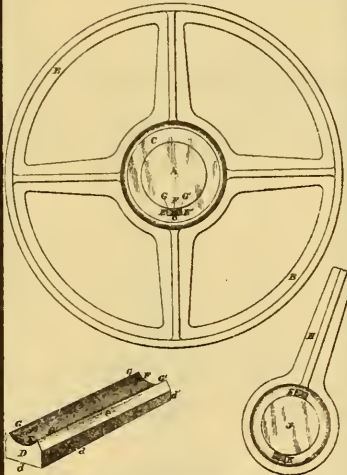
110,504 T. SIMMONS AND D. H. LOWE BOTTLE FILLING APPARATUS.



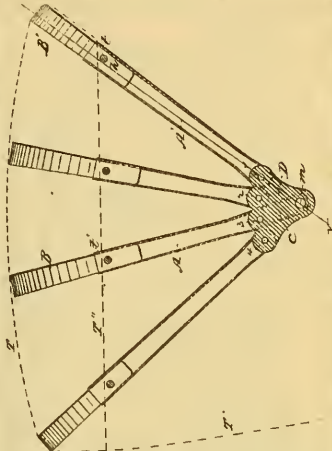
110,505 J. SMILES BREACH LOADING FIRE ARM



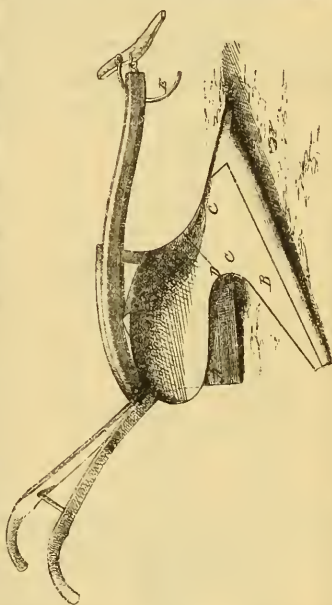
110,509. A. B. SPROUT BUCK SAW

110,510. N. STEDMAN
KEY FOR SHAFTING.

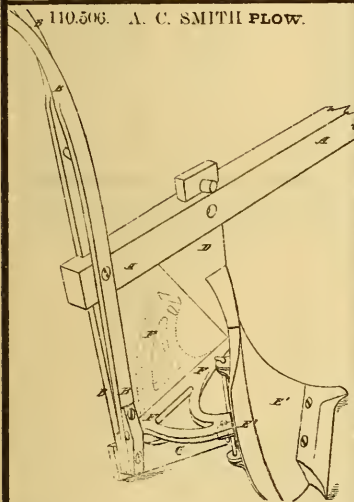
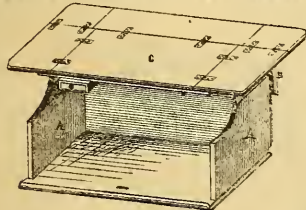
110,513 L. N. TOPLIFF CARRIAGE BOW



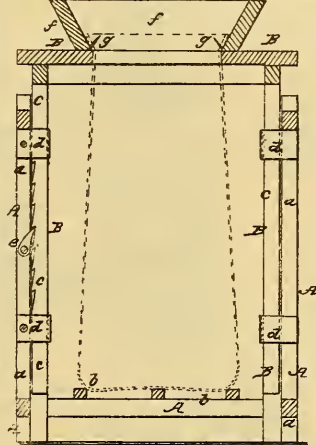
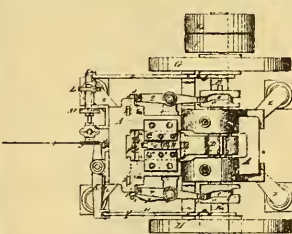
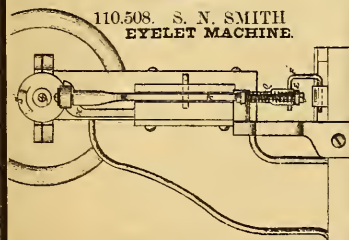
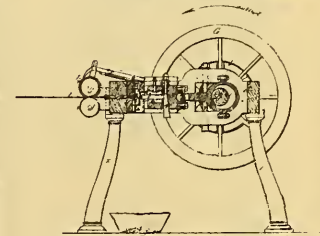
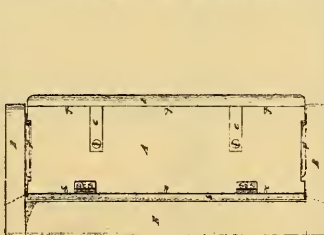
110,514. W. TRIPP POTATO DIGGER

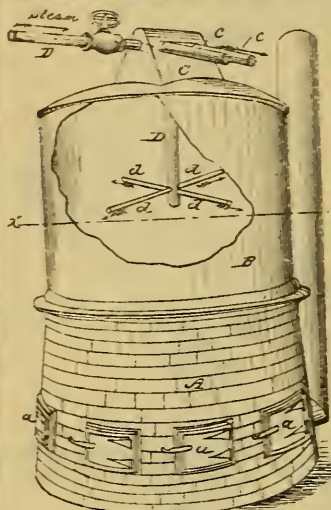
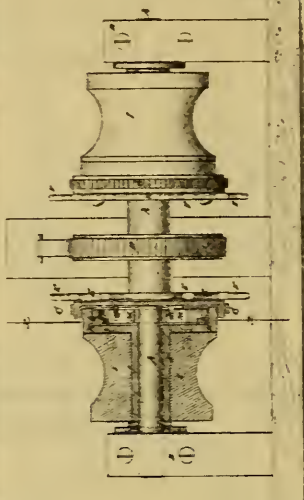


110,506. A. C. SMITH PLOW.

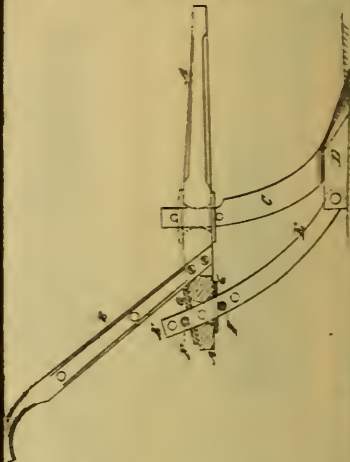
110,507. J. E. SMITH
CABINET FOR SEWING MACHINES

110,511. A. D. SWIGGER BAG HOLDER

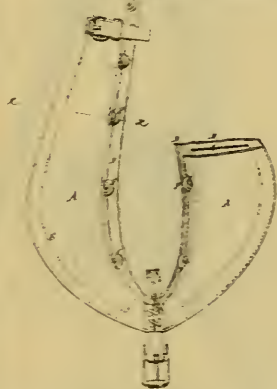
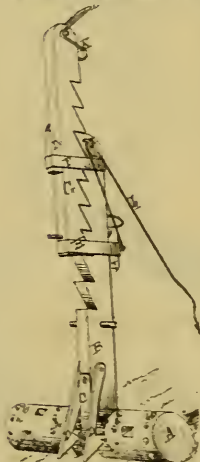
110,515. V. DE M. UPHAM
MACHINE FOR HEADING RIVET AND
SCREW BLANKS.110,508. S. N. SMITH
EYELET MACHINE.110,512. J. P. TIBBITS
TURN UP SEAT FOR CHURCHES, &c

110,516 S. VAN SYCKEL STILL
FOR PETROLEUM AND OTHER OILS.110,521. E. AND G. N. WATERBURY
WINDLASS

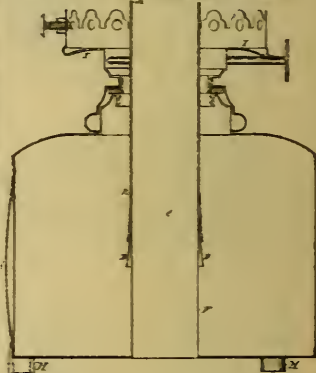
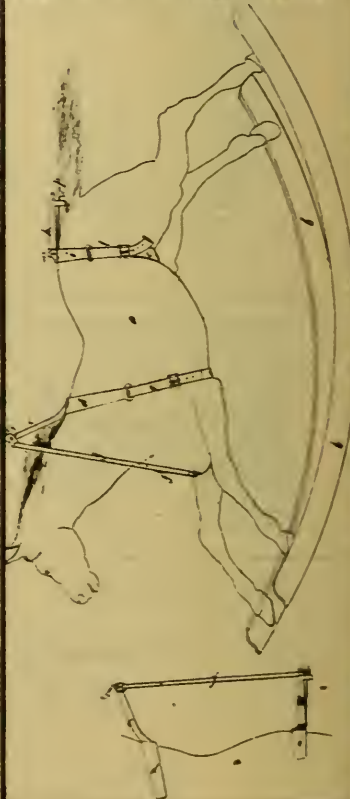
110,525 T. G. WILDER SUBSOIL FLOW.



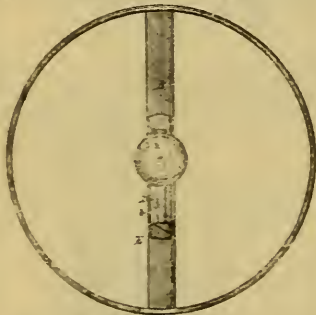
110,517 SUSPENDED

110,518. J. F. WALSH
HORSE COLLAR PAD110,522. C. S. WESTCOTT
PRINTERS INKING ROLLER110,523. E. WHITCOMB
ROLLER LIFTING POWER

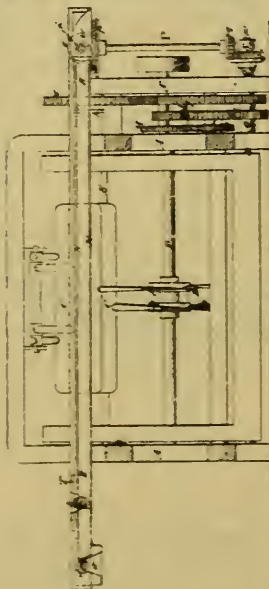
110,524 T. S. WILLIAMS LAMP

110,527. W. L. WILLIAMS
SEAT GUARD FOR HORSEY HORSES

110,519. R. WARD TOY HOOP.

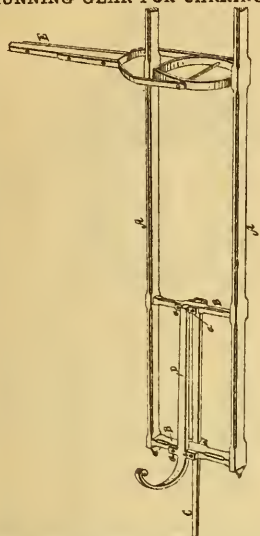
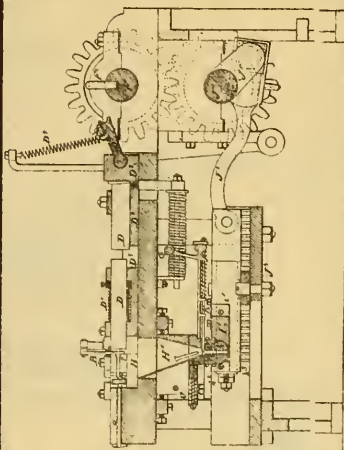
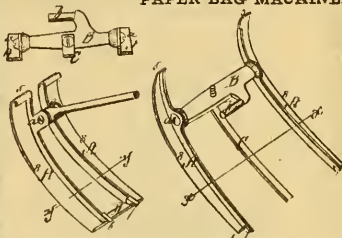


110,524. R. WHITEHILL LOOM

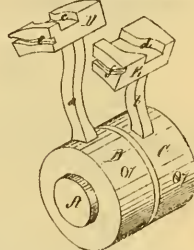
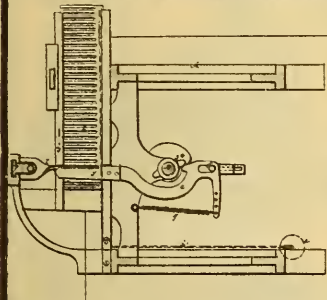


110,520 T. F. WARNER

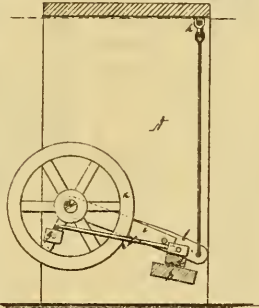
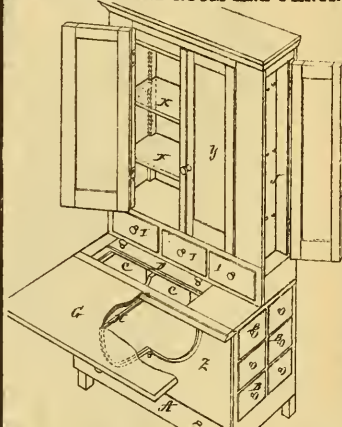
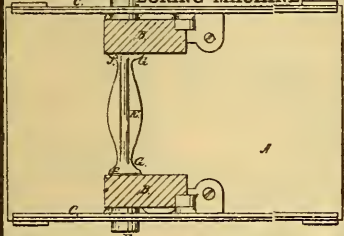
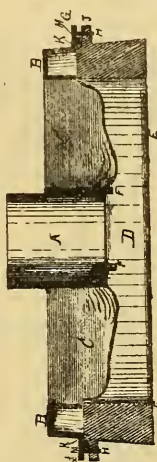


110,528 J. B. WITHEY
RUNNING GEAR FOR CARRIAGES.110,532 J. M. ALDEN
WOOD SCREW MACHINE.110,536 C. F. ANNAN
PAPER BAG MACHINE.

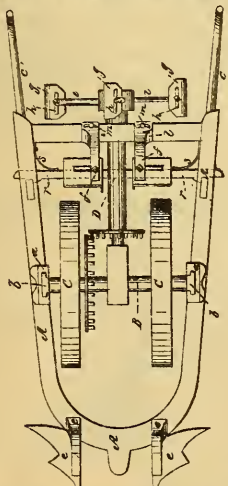
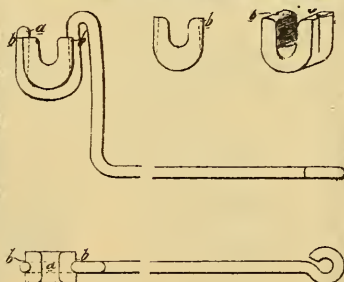
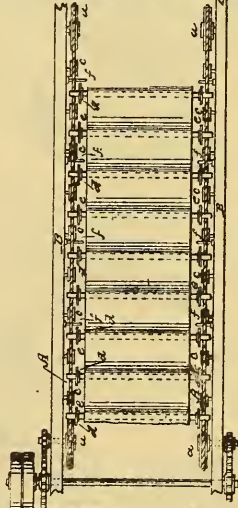
110,537 C. F. ANNAN ADJUSTABLE CAM

110,529 O. D. WOODBURY
MACHINE FOR MAKING BRUSHES.

110,533 A. M. ALLEN TREADLE

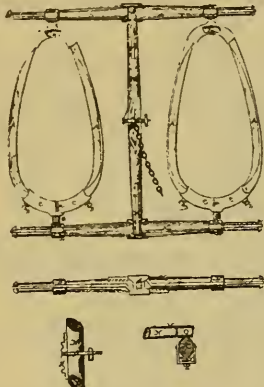
110,538 T. A. BARRELL
PORTABLE STORE ROOM AND PANTRY110,530 E. J. WORCESTER
BORING MACHINE.110,534 A. ALLING
COPE FOR CASTING CAR WHEELS.

110,539 G. N. BEARD COTTON BALE TIE.

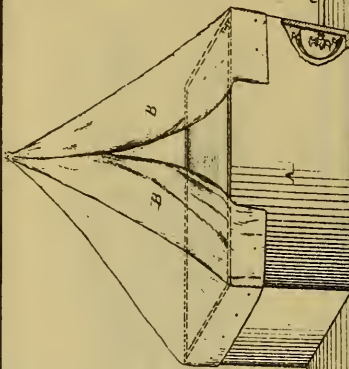
110,531 J. H. W. YOUNG COTTON
CULTIVATOR, SCRAPER, AND CHOPPER.110,535 W. W. ALTEMUS
THREAD GUIDE AND HOLDER FOR
BOBBIN WINDING MACHINES.110,540 F. BECK, MACHINE FOR
DRYING PAPER AND OTHER FABRICS.

110,541

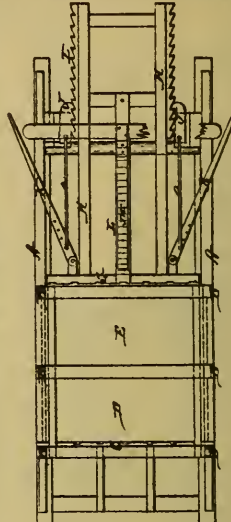
A. B. BEAUMONT HORSE YOKE.



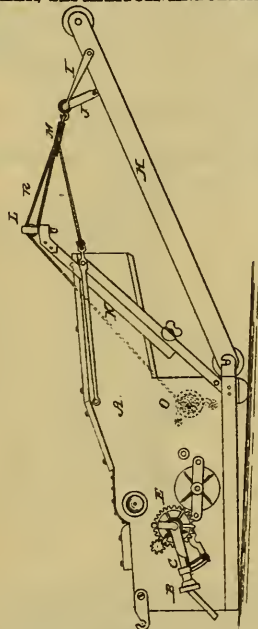
110,545. J. W. CALDWELL COMBINED IMMERSION AND STEAM BATH.



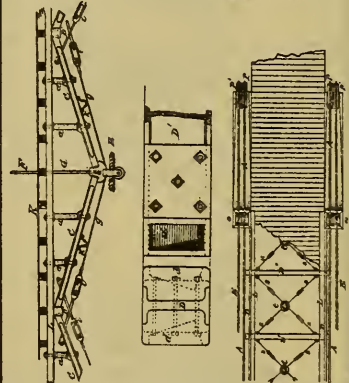
110,549. N. CHEEK COTTON PRESS



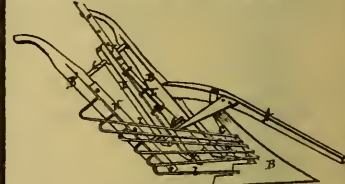
110,542. E. M. BIRDSALL GRAIN THRASHER, SEPARATOR, AND CLEANER.



110,546. A. McDONALD. BRIDGE.



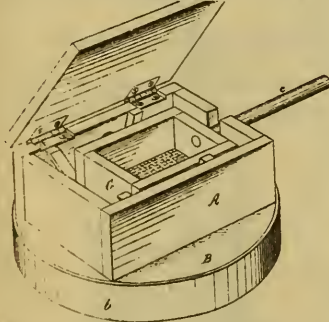
110,550. J. CLIFTON PLOW.



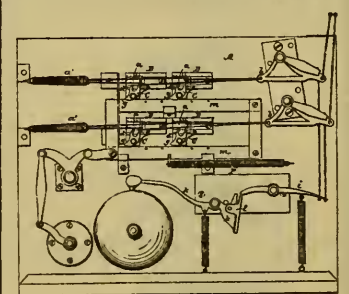
110,551. E. B. CORBY CLOTHES DRIER.



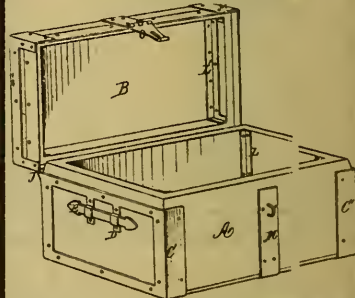
110,543. S. O. BLANDING SIFTER.



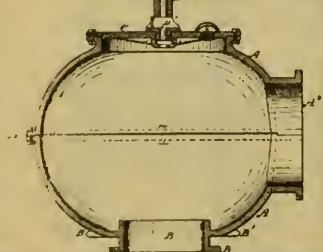
110,547. J. CAPRON ANNUNCIATOR.



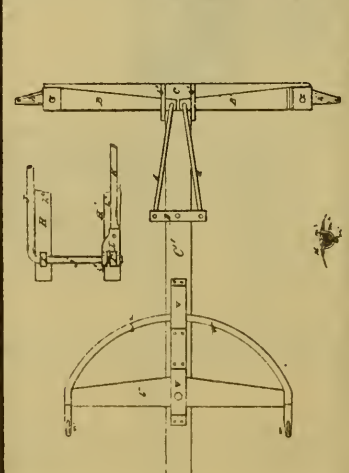
110,552. F. K. DAGGETT TRUNK.



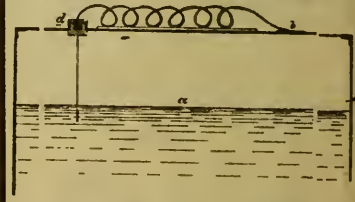
110,544. J. W. BOOKWALTER WATER WHEEL.



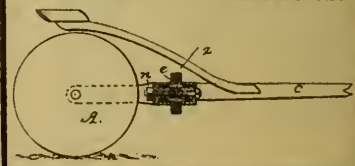
110,548. J. H. CARLOW CULTIVATOR.



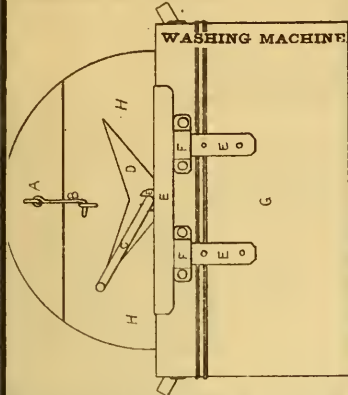
110,553. C. J. A. DICK PREVENTING INCRUSTATION OF STEAM BOILERS.



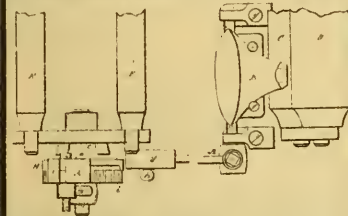
110,554. J. W. DILLEY LAND ROLLER.



110,555. W. J. DODGE.

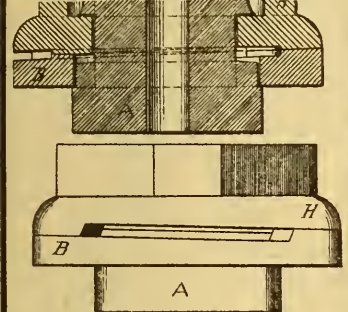


110,556G. DRAPER DRAWING FRAME

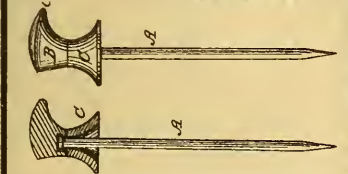


110,557. W. ELDER

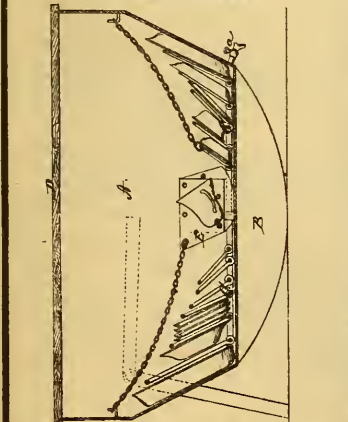
FASTENING CARRIAGE WHEELS.



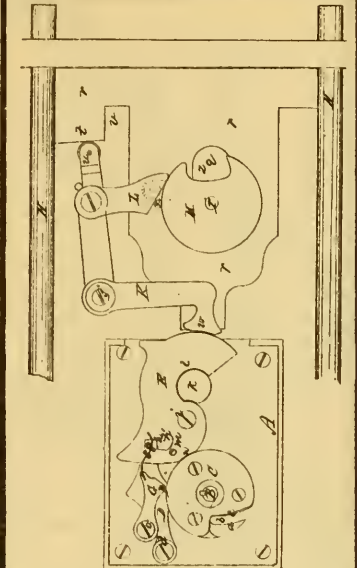
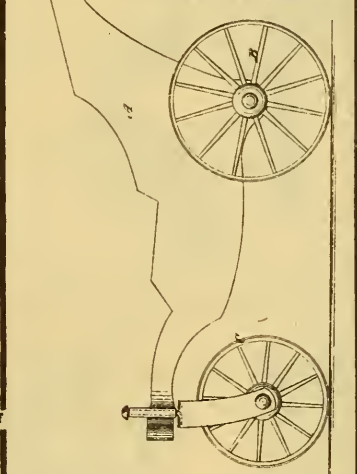
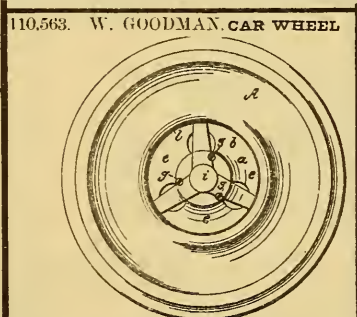
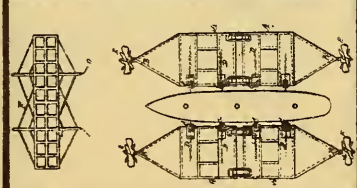
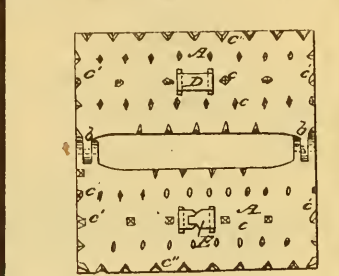
110,558C. H. FIELD CARRIAGE BUTTON



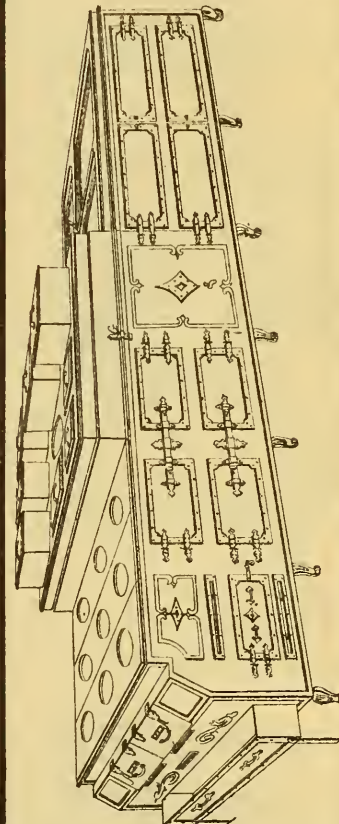
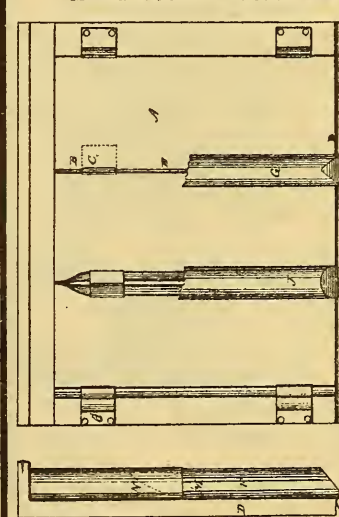
110,559R. AND R. D. S. FILSON AND J. D. COPE. DISH WASHER



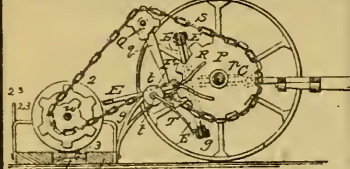
110,560C. FLESCHPERMUTATION LOCK

110,561. I. N. FORRESTER
CHILD'S CARRIAGE110,562. W. H. FULLER TREATING
SIDES AND MANUFACTURING LEATHER110,564. J. E. GOWEN
APPARATUS FOR RAISING VESSELS.110,565. J. M. GRAY
HAND CORN HUSKER AND SHELLER

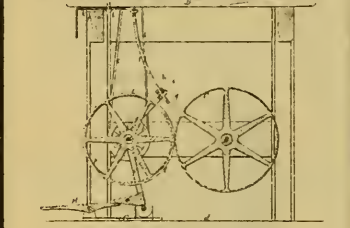
110,566. W. HALL COOKING RANGE

110,567. J. S. HAYWOOD
METAL ROOF FOR BUILDINGS.

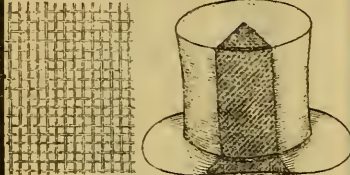
110,568. G. F. HAWLEY HARVESTER.



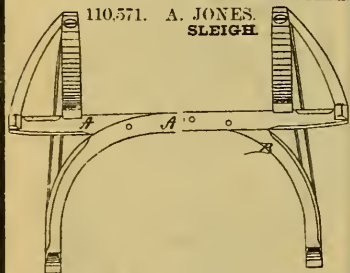
110,569. E. L. HOWARD MECHANISM FOR OPERATING SEWING MACHINES



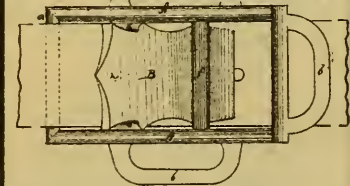
110,570. G. JOHNSON HAT.



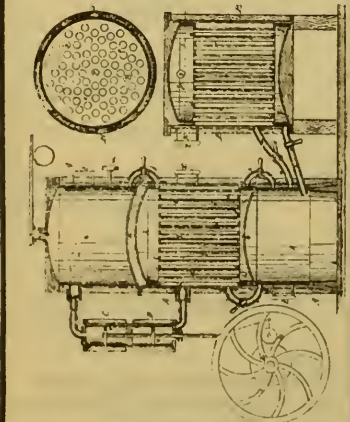
110,571. A. JONES SLEIGH.



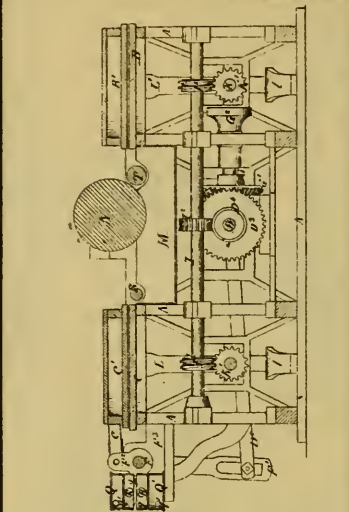
110,572. W. W. KITTLEMAN TRACE BUCKLE.



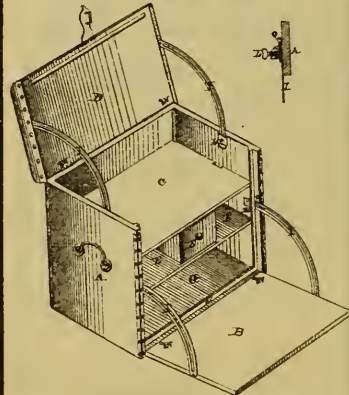
110,573. J. KRAFFT MACHINE FOR COOLING AIR AND FOR THE MANUFACTURE OF ICE



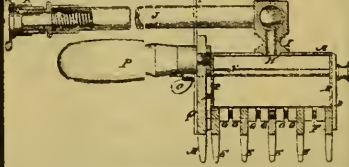
110,574. P. LADD FELTING MACHINE



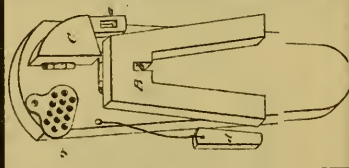
110,575. J. G. LANE TRUNK



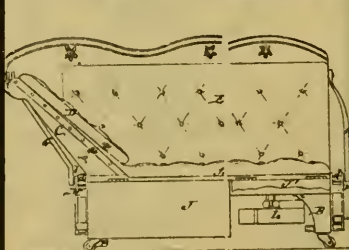
110,576. W. E. LAWRENCE CURRY COMB



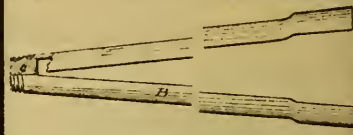
110,577. J. J. MARK IRONING TABLE.



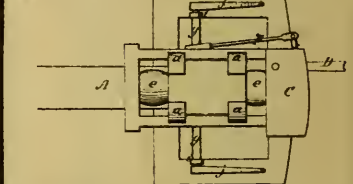
110,578. M. MARSO FOLDING LOUNGE



110,579. L. MAYHEW AXLE SKEIN



110,580. W. H. MEADOWS CAR COUPLING



110,581. F. B. MORSE CARRIAGE CLIP

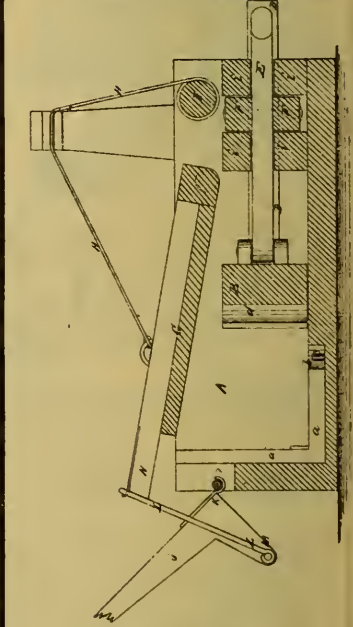


110,582. E. D. MURFEY MATERIAL FOR BEARINGS AND PACKINGS

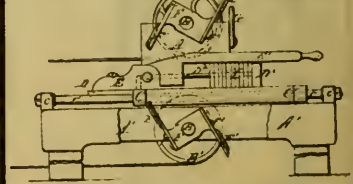
110,583. E. D. MURFEY BEARING AND PACKING MATERIAL.

110,584. E. D. MURFEY THE MANUFACTURE OF MATERIAL FOR JOURNALS, BEARINGS, AND PACKINGS.

110,585. M. V. NORTHRUP HAY AND OTHER PRESSES



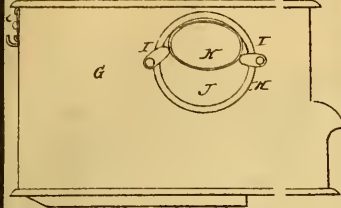
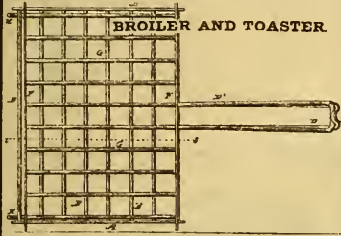
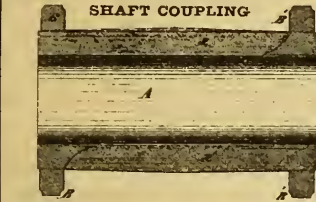
110,586. W. AND J. F. NUELLE MACHINE FOR DRESSING FENCE PICKETS



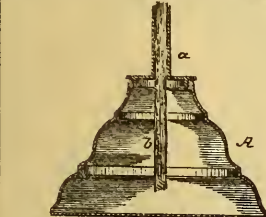
110,587. J. S. PALMER FINGER RING.



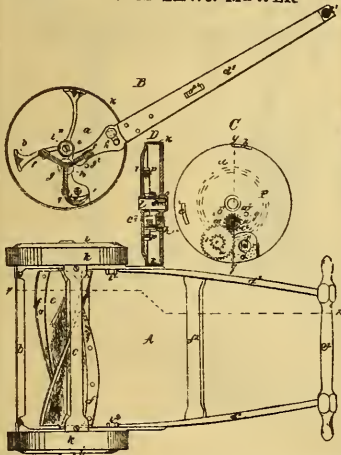
110,588. M. PRATT COOKING STOVE.

110,589 J. M. READ AND J. M. SMITH
BROILER AND TOASTER.110,590. P. W. REINSNAGEN
SHAFT COUPLING.

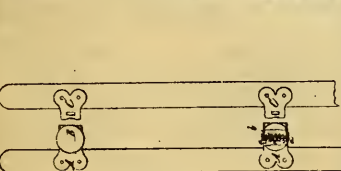
110,591. D. T. ROBINSON LAMP WICK.



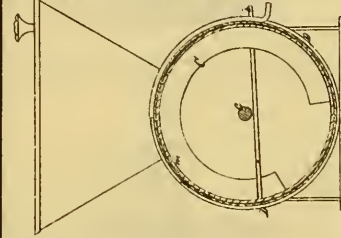
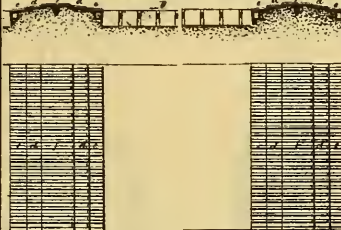
110,592. L. ROSS LAWN MOWER.



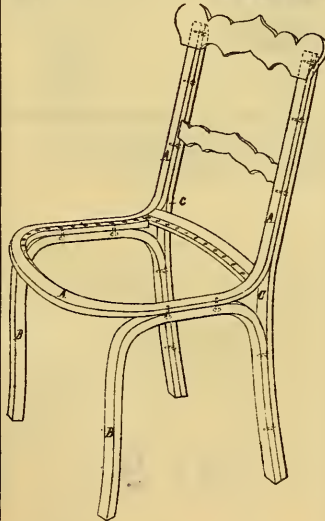
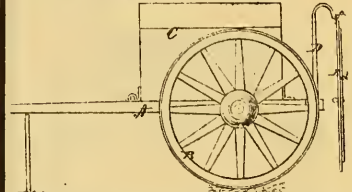
110,593 C. SCHIECK CORSET FASTENING.



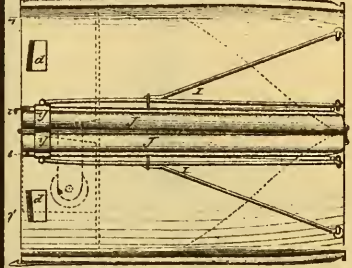
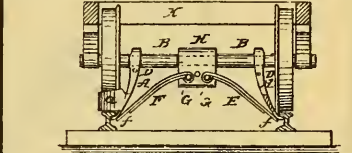
110,594. W. SELFE TOBACCO PIPE.

110,595. S. H. SHEPLAR AND
W. G. CONKLIN SEED SOWER.110,596. H. P. Sisson
CARPENTER'S GAGE.110,597. B. C. SMITH
COMBINED TRAMWAY AND PAVEMENT.

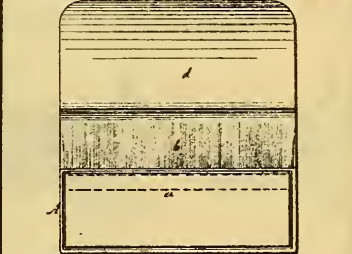
110,598. W. M. SMITH CHAIR FRAME.

110,599. H. SPEAR'S PORTABLE SHIELD
FOR INFANTRY AND ARTILLERY.

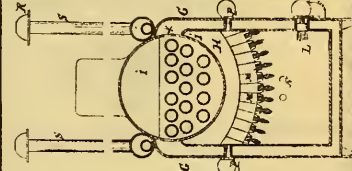
110,600. J. M. STARR LIFE BOAT.

110,601. C. STOLL
MALT RESERVOIR.110,602. A. STRAUSS. SAFETY
ATTACHMENT FOR RAILWAY TRUCKS.

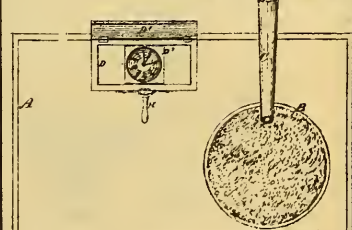
110,603. T. F. STUMPF POCKET BRUSH.



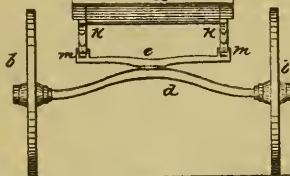
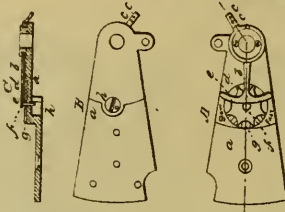
110,604. F. SULTER STEAM BOILER.



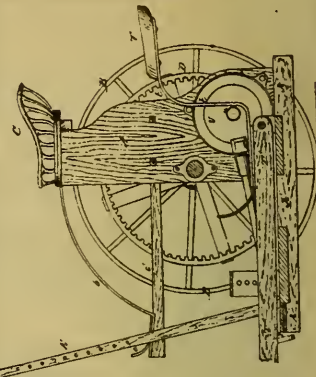
110,605 W. Z. TAYLOR GRAIN REGISTER.



110,606. C. THOMAS CARRIAGE.

110,614. C. V. WOERD
WATCH REGULATOR.

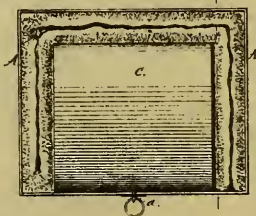
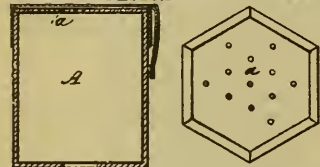
4,217. R. DUTTON HARVESTER.



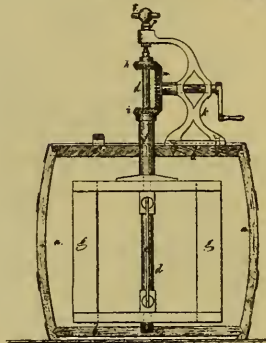
110,607. W. TREDENICK CLOTHES DRIER.



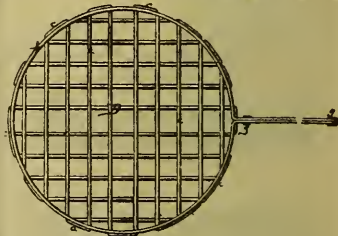
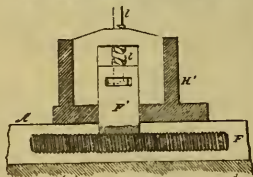
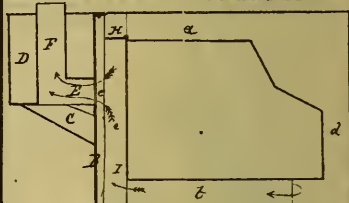
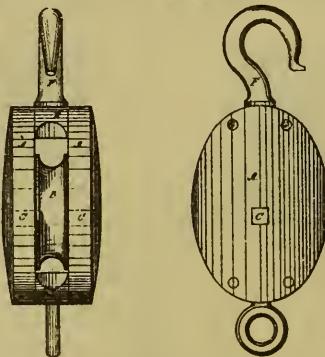
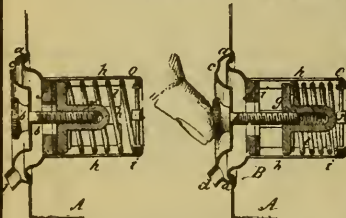
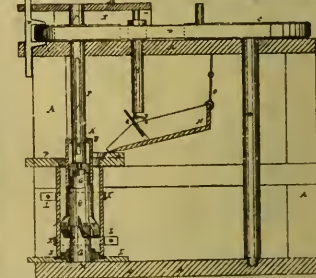
110,615. C. W. FRAZER FUR SET BOX.

110,608. A. E. TURNBULL, JR.
PEPPER AND SPICE BOX.

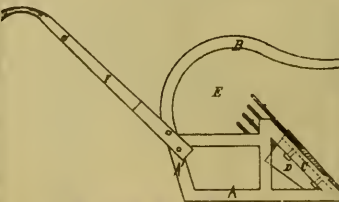
110,616. J. O. McCLASKEY CHURN.



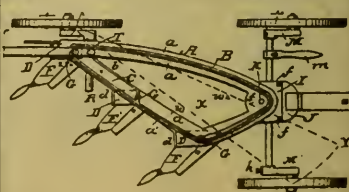
4,218. J. T. PAGE. BROILER.

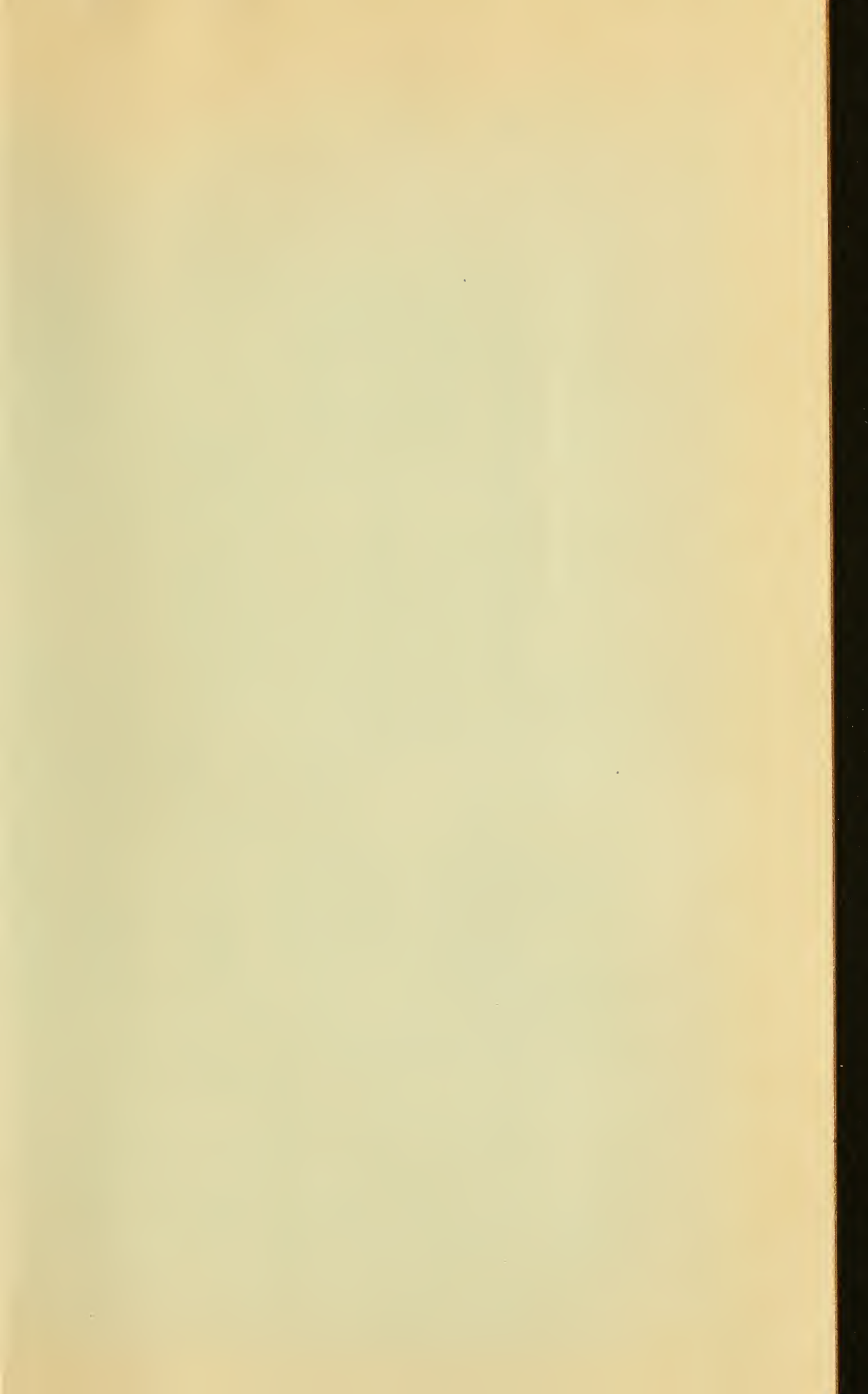
110,609. C. VAN HAAGEN MACHINE
FOR CUTTING AND SHAPING METALS.4,219. G. H. PHILLIPS
RESERVOIR COOKING STOVE.110,610. S. S. WALBANK
COMPOUND FOR TREATING LEATHER.4,215J. A. BURR, assignor to BURR & Co
HOISTING BLOCK.110,611. A. WARTH
TAP FOR OIL PACKAGES.4,220. J. W. STOCKWELL
WATER PIPE MACHINE.110,612. A. WARTH.
TAP FOR OIL PACKAGES.4,221E. B. REQUA, assignor to THE
REQUA CONCAVE BURNER AND CHIMNEY
COMPANY LAMP CHIMNEY.

110,613. M. M. WELLS GRAIN RAKE.

4,216J. M. DICK, assignor to himself and
W. H. ALBRO. SHOVEL FLOW AND
POTATO DIGGER COMBINED.

4,222. G. W. HILDRETH GANG FLOW.









SMITHSONIAN INSTITUTION LIBRARIES



3 9088 01585 2551